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Torsten B. Moeller
Emil Reif

Pocket Atlas of
Radiographic Anatomy

Second edition, revised and enlarged



Thieme

Pocket Atlas of Radiographic Anatomy

Second edition, revised and enlarged

Torsten B. Moeller, M.D.

Am Caritas-Krankenhaus
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To Bernie and Arlene,
Bryan and Nancy Riegner,
Southfield, Michigan

Despite the introduction of digital radiography, the process of obtaining and evaluating radiographic images has not changed significantly in recent years, nor has the importance of a good knowledge of the anatomic details of conventional radiographs. This book is a case in point. We were very pleased with the wide distribution of the first edition, which has been an additional incentive to improve a number of details, include even better images, replace some of the drawings, and include a few new radiographs. The structure of the second edition also strictly follows that of *Normal Findings in Radiology* and *Pocket Atlas of Radiographic Positioning*. Our intention in this is to present clearly and concisely each respective chapter of conventional diagnostic radiography and to avoid unnecessary repetition. At the same time, we give the reader the opportunity to examine different aspects of the same material with the same degree of clarity, which may prove important on another occasion. We have employed a consistent style and the same radiographs to structure the material and make it more readily accessible for reading, learning, or reference purposes.

Dillingen, Summer 1999

Torsten B. Möller
Emil Reif

Skeletal Imaging 1

Skull 2

Posterior-Anterior View of the Skull 3

Lateral View of the Skull 5

Towne View of the Posterior Skull 7

Waters View of the Nasal Sinuses 9

Occipitofrontal View of the Nasal Sinuses 11

Posterior-Anterior View of the Orbit 13

Rhese View of the Orbit 15

Maxilla 17

Ramus of the Mandible 19

Clementschi View of the Mandible 21

Pantomogram of the Jaw and Facial Bones 23

Skull: Lateral View of the Nose 24

Zygomatic Arch 25

Skull 26

Base of the Skull 27

Altschul View of the Petrous Ridge 29

Schüller View of the Petrous Bone 31

Stenvers View of the Petrous Bone 33

Mayer View of the Petrous Bone 35

Lateral View of the Sella Turcica 37

Anterior-Posterior View of the Sella Turcica 39

Spine 40

Anterior-Posterior Full-length View of the Spine 41

Anterior-Posterior View of the Cervical Spine 43

Lateral View of the Cervical Spine 45

Oblique View of the Cervical Spine 47

Anterior-Posterior View of the Thoracic Spine 49

Lateral View of the Thoracic Spine 51

Anterior-Posterior View of the Lumbar Spine 53

Lateral View of the Lumbar Spine 55

Oblique View of the Lumbar Spine 57

Anterior-Posterior View of the Pelvis 59

Anterior-Posterior View of the Pelvis in a Child 61

Inlet View of the Pelvis 63

Guthmann's View of the Pelvis 65

Iliac Wing View of the Pelvis 67

Obturator View of the Pelvis 69

Thirty-degree Anterior Oblique View of the Sacroiliac Joint 71

Anterior-Posterior View of the Sacrum 73

Lateral View of the Sacrum 75

Anterior-Posterior View of the Coccyx 77

Lateral View of the Coccyx 79

Upper Extremities 80

Osseous Hemithorax 81

Anterior-Posterior View of the Sternum 83

Lateral View of the Sternum 85

Stress View of Both Shoulders 87

Anterior-Posterior View of the Clavicle 89

Oblique View of the Clavicle 91

Acromioclavicular Joint 93

Anterior-Posterior View of the Scapula 95

Lateral View of the Scapula 97

Anterior-Posterior View of the Shoulder 99

Anterior-Posterior Abduction View of the Shoulder 101

Axial View of the Shoulder 103

Tangential View of the Shoulder 105

Transthoracic View of the Shoulder 107

Anterior-Posterior View of the Upper Arm 109

Lateral View of the Upper Arm 111

Anterior-Posterior View of the Elbow 113

Lateral View of the Elbow 115

Axial View of the Elbow 117

Oblique View of the Radius 119

Anterior-Posterior View of the Forearm 121

Lateral View of the Forearm 123

Anterior-Posterior View of the Hand 125

Oblique View of the Hand 127

Anterior-Posterior View of the Wrist 129

Lateral View of the Wrist 131

Carpal Tunnel 133

Scaphoid Views 135

Special View of the Pisiform 137

Finger in Two Planes 139

Lower Extremities 140

Full-length Anterior-Posterior Weight-bearing View of the Leg 141

Anterior-Posterior View of the Hip 143

Lauenstein View of the Hip 145

Tangential View of the Femoral Head (Schneider I) 147

Tangential View of the Femoral Head (Schneider II) 149

Axial View of the Hip 151

Anterior-Posterior View of the Thigh 153

Lateral View of the Thigh 155

Anterior-Posterior View of the Knee 157

Lateral View of the Knee 159

Frik Tunnel View of the Knee 161

Thirty, Sixty, and Ninety-degree Views of the Patella 163

Anterior-Posterior View of the Lower Leg 165

Lateral View of the Lower Leg 167

Anterior-Posterior View of the Ankle 169

Lateral View of the Ankle 171

Anterior-Posterior View of the Foot 173

Lateral View of the Foot 175

Lateral View of the Calcaneus 177

Tangential View of the Calcaneus 179

Anterior-Posterior View of the Metatarsals 181

Oblique View of the Metatarsals 183

Anterior-Posterior View of the Forefoot 185

Oblique View of the Forefoot 187

Anterior-Posterior and Lateral Views of the Great Toe 189

Anatomy of Miscellaneous Plain Films 191

Routine Radiographs 192

Posterior-Anterior Chest Radiograph 193

Posterior-Anterior Chest Radiograph (Heart and Major Vessels) 195

Lateral Chest 197

Segments of the lung 199

Anterior Oblique View of the Right Chest 201

Anterior Oblique View of the Left Chest 203

Abdomen with the Patient Standing 205

Abdomen with the Patient Supine 207

Spot Images 208

Craniocaudal Mammogram 209

Mediolateral Mammogram 211

Anterior-Posterior Spot View of the Trachea 213

Lateral Spot View of the Trachea 215

Tomography 216

Anterior-Posterior Tomogram of the Pulmonary Hilum 217

Lateral Tomogram of the Right Hilum of the Lung 219

Tomogram of the Sacroiliac Joint 221

Contrast Studies 223

Gastrointestinal System 224

Anterior-Posterior View of the Hypopharynx 225

Lateral View of the Hypopharynx 227

Esophagus 229

Esophagus and Stomach 231

Stomach 233

Stomach and Duodenum 235

Stomach and Small Bowel 237

Small Bowel 239

Spot Film of the Ileocecal Region 241

Colon 243

Rectum 245

Defecography 247

Intravenous Contrast Studies 248

Intravenous Urogram 249

Intravenous Cholecystocholangiogram 251

Arthrography 252

Posterior-Anterior Wrist Arthrograph 253

Lateral Wrist Arthrograph 255

Anterior-Posterior Shoulder Arthrograph 257

Oblique Shoulder Arthrograph 259

Knee Arthrograph 261

Ankle Arthrograph 263

Arteriography 264

Anterior-Posterior Internal Carotid Arteriogram, Arterial Phase 265

Lateral Internal Carotid Arteriogram, Arterial Phase 267

Anterior-Posterior Internal Carotid Arteriogram, Venous Phase 269

Lateral Internal Carotid Arteriogram, Venous Phase 271

Anterior-Posterior Vertebral Arteriogram, Arterial Phase 273

Lateral Vertebral Arteriogram, Arterial Phase 275

Anterior-Posterior Vertebral Arteriogram, Venous Phase 277

Lateral Vertebral Arteriogram, Venous Phase 279

Anterior-Posterior Angiogram of the Cervical Vessels 281

Anterior-Posterior Aortic Arch Angiogram 283

Pulmonary Arteriogram, Arterial Phase	285
Anterior-Posterior Pulmonary Arteriogram, Venous Phase	287
Celiac Trunk Angiogram, Arterial Phase	289
Celiac Trunk Angiogram, Venous Phase	291
Superior Mesenteric Arteriogram, Arterial Phase	293
Superior Mesenteric Arteriogram, Venous Phase	295
Renal Arteriogram, Arterial Phase	297
Renal Arteriogram, Venous Phase	299
Pelvic Aortic Angiogram	301
Lower Extremity Angiogram of the Thigh	303
Lower Extremity Angiogram of the Knee	305
Lower Extremity Angiogram of the Lower Leg	307
Lower Extremity Angiogram of the Ankle and Foot	309
Venography	310
Anterior-Posterior Superior Vena Cava Venogram	311
Anterior-Posterior Inferior Vena Cava Venogram	313
Lateral Inferior Vena Cava Venogram	315
Upper Extremity Venogram of the Axilla	317
Upper Extremity Venogram of the Forearm	319
Lower Extremity Venogram	321

Special Studies 323

Special Studies 324

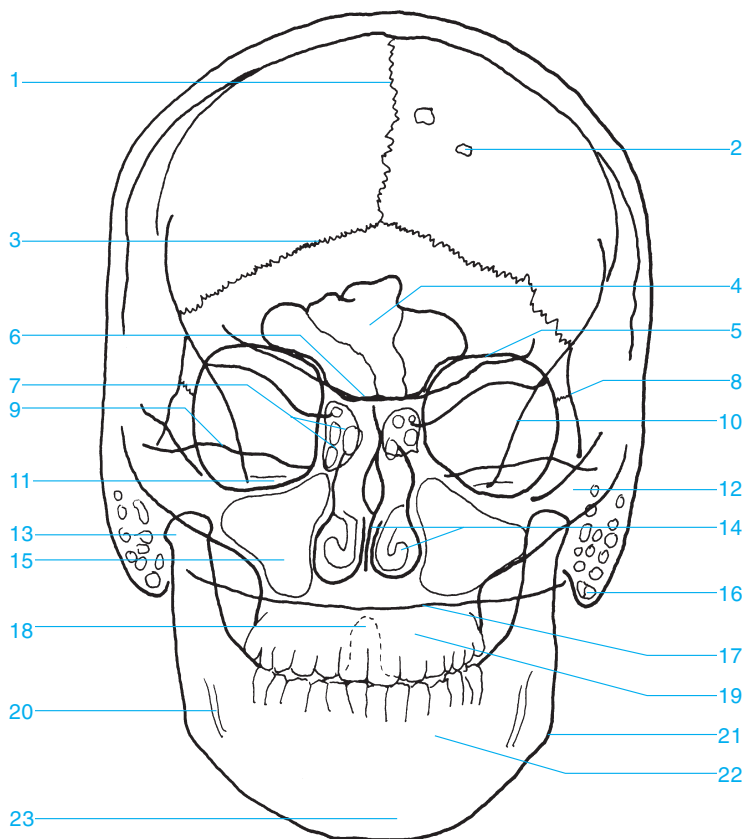
Anterior-Posterior Thoracic Myelogram	325
Lateral Thoracic Myelogram	327
Anterior-Posterior Lumbar Myelogram	329
Lateral Lumbar Myelogram	331
Oblique Lumbar Myelogram	333
Anterior-Posterior Bipedal Lymphangiogram, Channel Phase	335
Oblique Bipedal Lymphangiogram, Channel Phase	337
Anterior-Posterior Bipedal Lymphangiogram, Nodal Phase	339
Anterior-Posterior Left Bronchogram	341
Lateral Left Bronchogram	343
Lateral Parotid Sialogram	345
Anterior-Posterior Parotid Sialogram	347
Hysterosalpingogram	349
Galactogram	351
ERCP (Endoscopic Retrograde Cholangiopancreatography)	353

Index 354

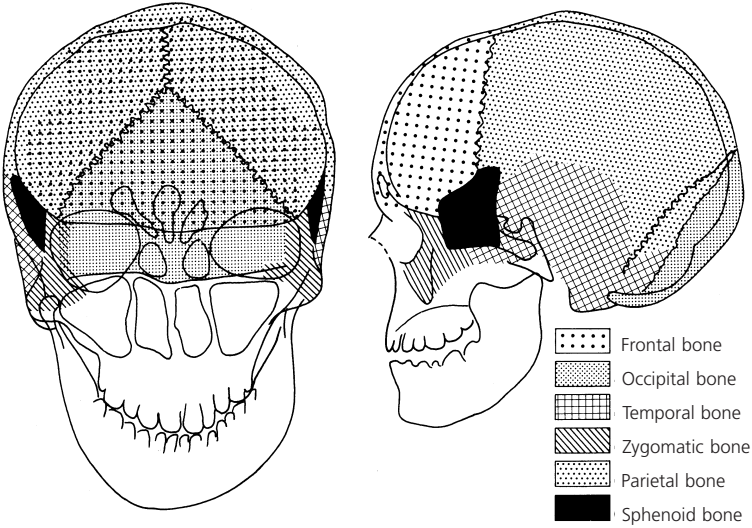
Skull**Spine****Upper Extremities****Lower Extremities****Routine Radiographs****Contrast Studies****Special Studies**

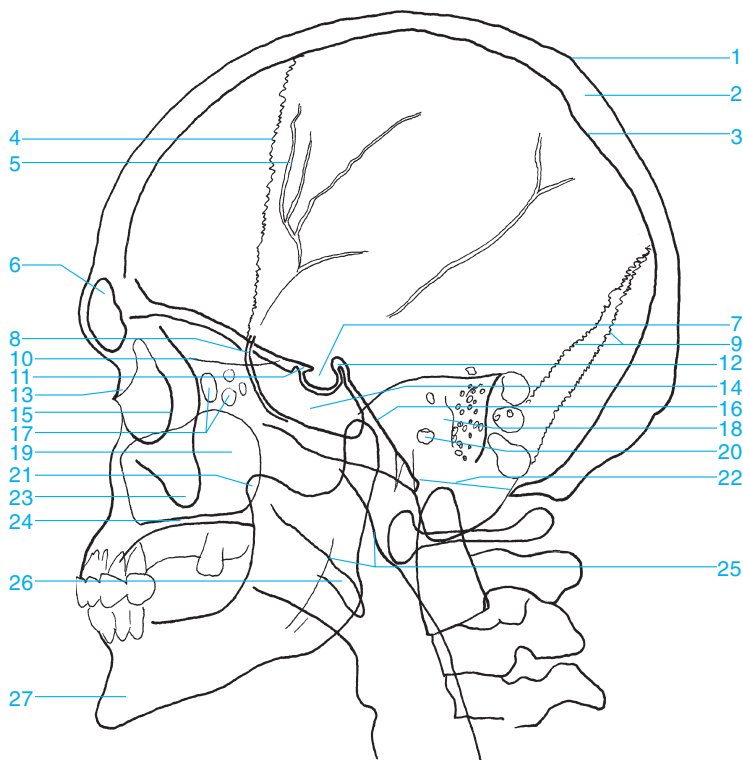
Skeletal Imaging





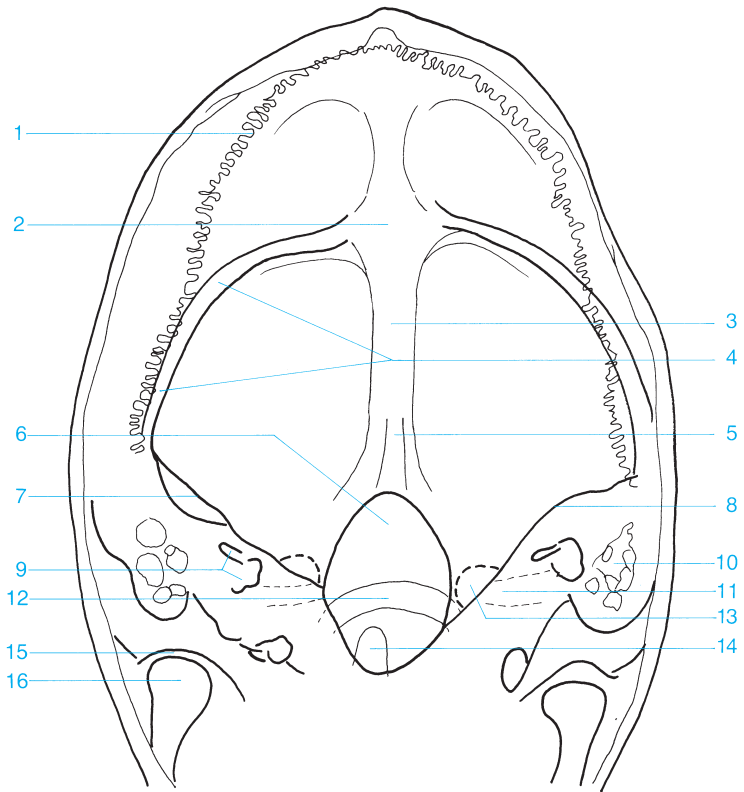
- | | |
|----------------------------|--|
| 1 Sagittal suture | 13 Condylar process of the mandible |
| 2 Pacchionian granulations | 14 Nasal septum and inferior nasal bones |
| 3 Lambdoid suture | 15 Maxillary sinus |
| 4 Frontal sinus | 16 Mastoid process |
| 5 Roof of the orbit | 17 Occiput |
| 6 Sphenoid | 18 Dens of the axis |
| 7 Ethmoid sinus | 19 Maxilla |
| 8 Frontozygomatic suture | 20 Mandibular canal |
| 9 Petrous ridge | 21 Angle of the mandible |
| 10 Innominate line | 22 Mandible |
| 11 Internal auditory canal | 23 Mental protuberance |
| 12 Zygomatic arch | |





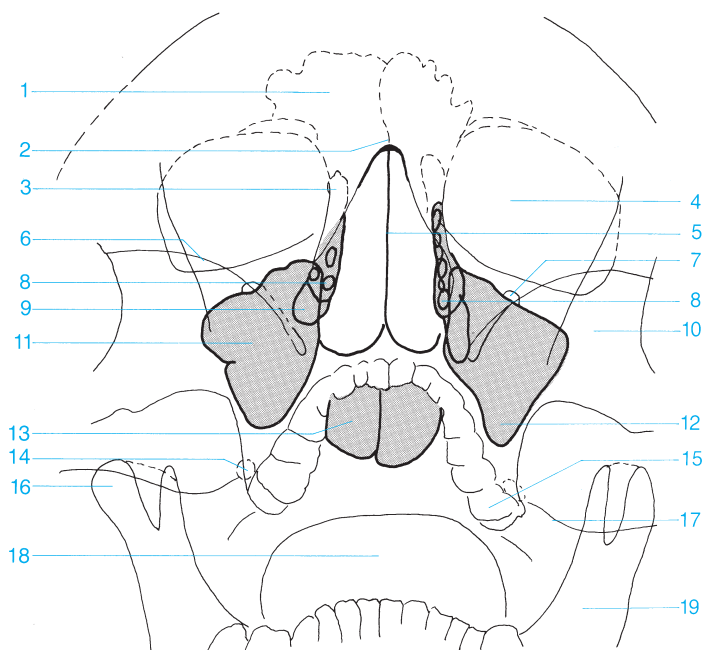
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|---|---|
| 1 Outer table of the parietal bone | 15 Zygomatic bone (lateral wall of the orbit) |
| 2 Diploe | 16 Clivus |
| 3 Inner table of the parietal bone | 17 Ethmoid sinus |
| 4 Coronal suture | 18 Petrous portion of the temporal bone |
| 5 Groove of the middle meningeal artery | 19 Maxillary sinus |
| 6 Frontal sinus | 20 Opening of the external auditory canal |
| 7 Pituitary fossa | 21 Coronoid process of the mandible |
| 8 Greater wing of the sphenoid | 22 Foramen magnum |
| 9 Lambdoid suture | 23 Zygomatic process |
| 10 Cribriform plate | 24 Hard palate |
| 11 Anterior clinoid process | 25 Nasopharynx |
| 12 Posterior clinoid process | 26 Soft palate |
| 13 Nasal bone | 27 Mandible |
| 14 Sphenoid sinus | |





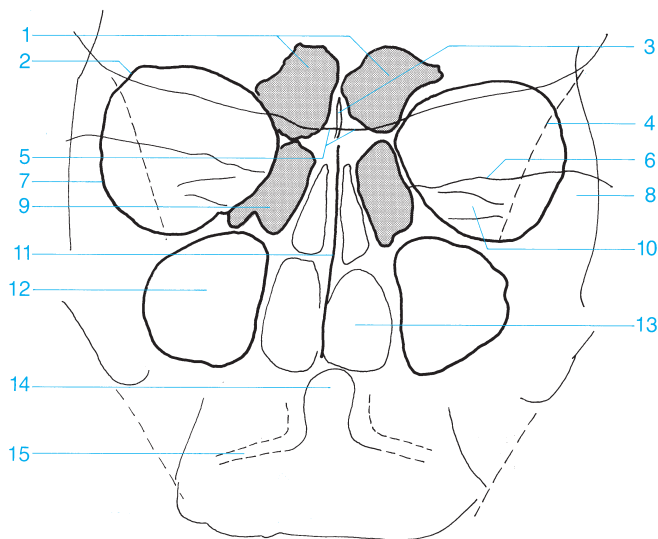
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|---|--------------------------------|
| 1 Lambdoid suture | 9 Semicircular canals |
| 2 Occipital protuberances (external and internal) | 10 Mastoid air cells |
| 3 Occipital bone | 11 Internal auditory canal |
| 4 Sulcus of the transverse sinus | 12 Posterior arch of the atlas |
| 5 Occipital crest | 13 Jugular foramen |
| 6 Foramen magnum | 14 Dens |
| 7 Petrous bone | 15 Temporomandibular joint |
| 8 Arcuate eminence | 16 Condyle of the mandible |





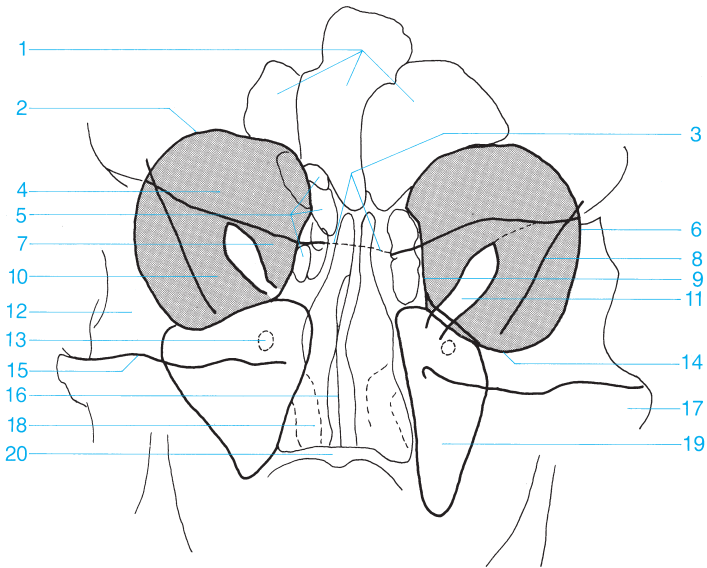
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|--------------------------------|------------------------------------|
| 1 Frontal sinus | 11 Maxillary sinus |
| 2 Nasal bone | 12 Alveolar recess of the maxilla |
| 3 Anterior ethmoid sinus | 13 Sphenoid sinus |
| 4 Orbit | 14 Foramen ovale |
| 5 Nasal septum | 15 Alveolar process of the maxilla |
| 6 Greater wing of the sphenoid | 16 Condyle of the mandible |
| 7 Infraorbital foramen | 17 Petrous ridge |
| 8 Foramen rotundum | 18 Tongue |
| 9 Posterior ethmoid sinus | 19 Mandible |
| 10 Zygomatic bone | |



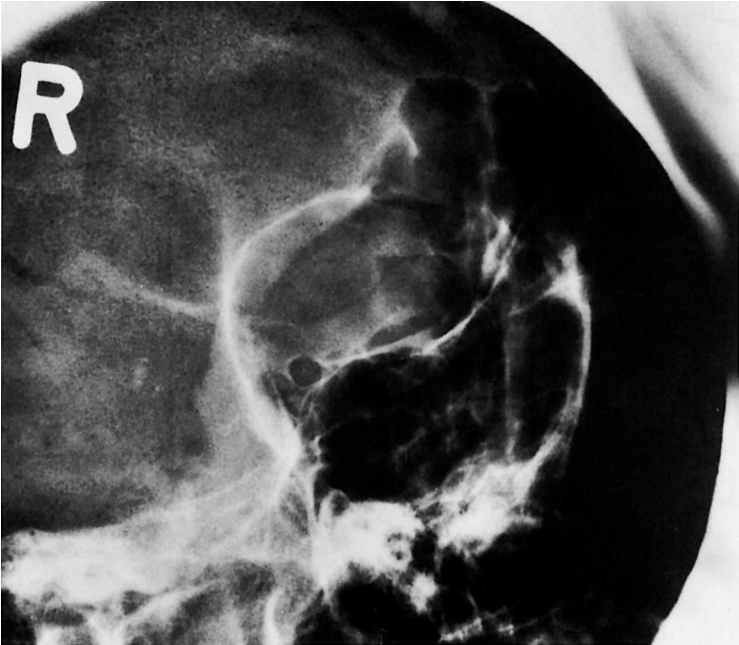


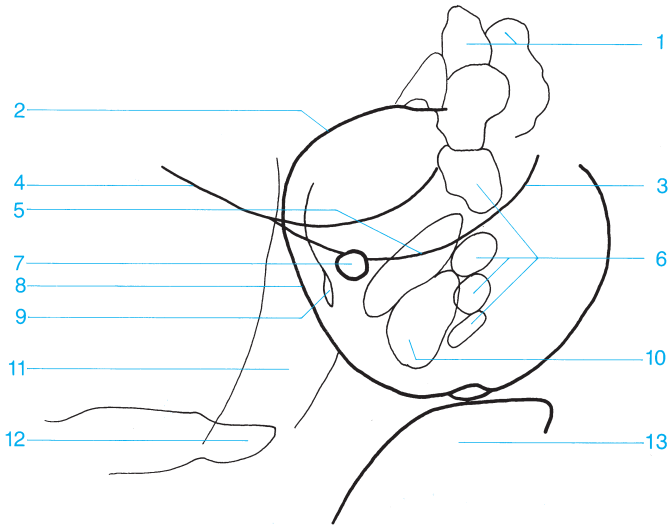
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|-----------------------------|----------------------------|
| 1 Frontal sinus | 9 Anterior ethmoid sinus |
| 2 Roof of the orbit | 10 Internal auditory canal |
| 3 Crista galli | 11 Nasal septum |
| 4 Innominate line | 12 Maxillary sinus |
| 5 Sphenoid | 13 Nasal cavity |
| 6 Petrous ridge | 14 Dens |
| 7 Lateral wall of the orbit | 15 Atlantoaxial joint |
| 8 Zygomatic bone | |





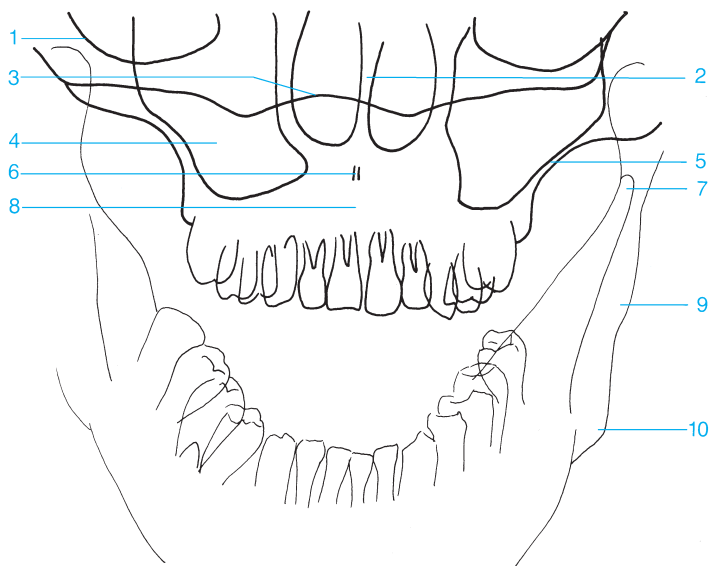
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|---------------------------------|--|
| 1 Frontal sinus | 12 Frontal process of the zygomatic bone |
| 2 Roof of the orbit | 13 Foramen rotundum |
| 3 Sphenoid | 14 Floor of the orbit |
| 4 Orbit (gray background) | 15 Petrous ridge |
| 5 Ethmoid sinus | 16 Nasal septum |
| 6 Lateral wall of the orbit | 17 Zygomatic arch |
| 7 Lesser wing of the sphenoid | 18 Inferior turbinate |
| 8 Innominate line | 19 Maxillary sinus |
| 9 Orbital plate | 20 Hard palate |
| 10 Greater wing of the sphenoid | |
| 11 Superior orbital fissure | |





- | | |
|-------------------------------------|---|
| 1 Frontal sinus | 8 Lateral wall of the orbit |
| 2 Roof of the orbit | 9 Superior orbital fissure |
| 3 Left lesser wing of the sphenoid | 10 Sphenoid sinus |
| 4 Right lesser wing of the sphenoid | 11 Zygomatic arch |
| 5 Sphenoid | 12 Petrous portion of the temporal bone |
| 6 Ethmoid sinus | 13 Maxillary sinus |
| 7 Optic canal | |

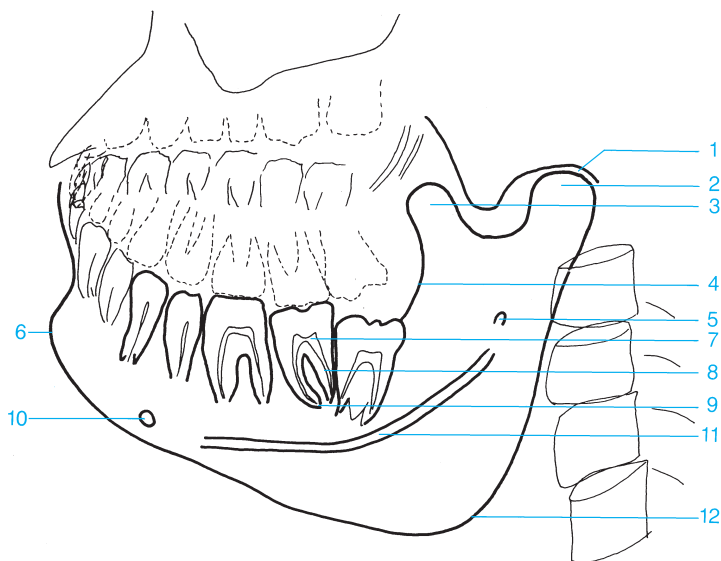




- 1 Floor of the orbit
- 2 Nasal septum
- 3 Base of the skull
- 4 Maxillary sinus
- 5 Lateral wall of the maxilla

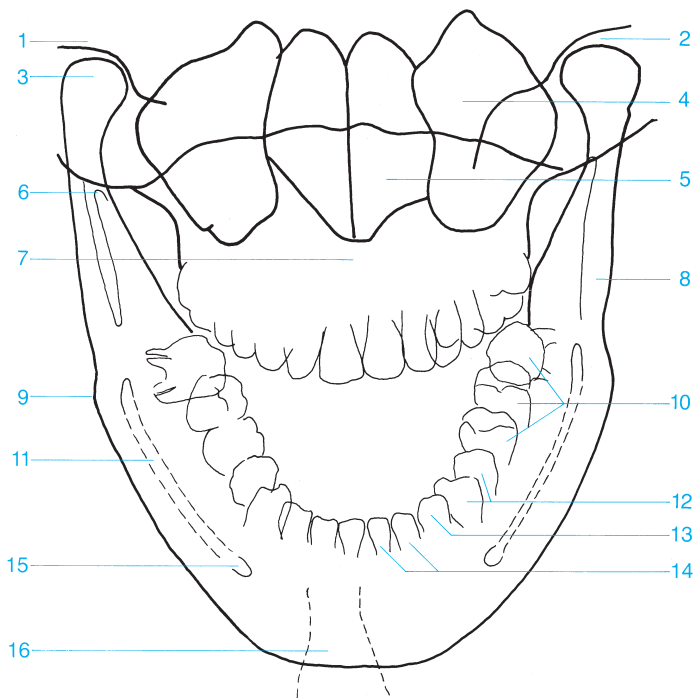
- 6 Anterior nasal spine
- 7 Coronoid process
- 8 Maxilla
- 9 Ramus of the mandible
- 10 Angle of the mandible





- | | |
|-----------------------------------|-------------------------------|
| 1 Temporomandibular joint | 7 Pulp cavity |
| 2 Condyle of the mandible | 8 Root canal |
| 3 Coronoid process | 9 Apical foramen of the tooth |
| 4 Cortex of ramus of the mandible | 10 Mental foramen |
| 5 Mandibular foramen | 11 Mandibular canal |
| 6 Mental protuberance | 12 Angle of the mandible |





- 1 Temporal bone
- 2 Temporomandibular joint
- 3 Condyle of the mandible
- 4 Maxillary sinus
- 5 Nasal cavity
- 6 Coronoid process
- 7 Maxilla
- 8 Ramus of the mandible
- 9 Angle of the mandible

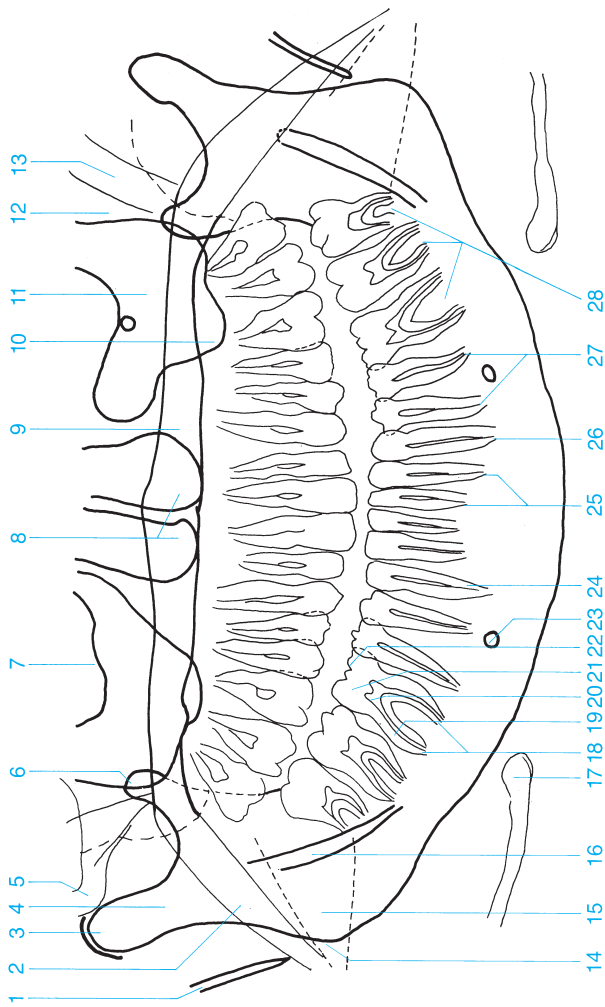
- 10 Molars
- 11 Mandibular canal
- 12 Premolars
- 13 Canines
- 14 Incisors
- 15 Mental foramen
- 16 Mental protuberance (trachea superimposed as radiolucent band)

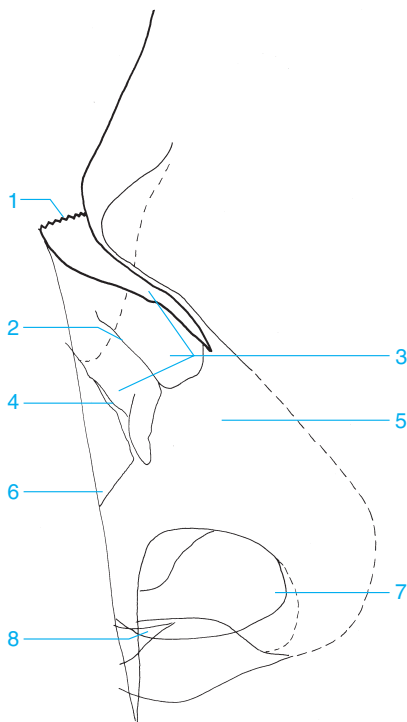


- 1 Styloid process
- 2 Soft palate
- 3 Condyle of the mandible
- 4 Condylar process
- 5 Zygomatic arch
- 6 Coronoid process
- 7 Floor of the orbit
- 8 Nasal cavity
- 9 Hard palate
- 10 Alveolar recess of the maxilla

- 11 Maxillary sinus
- 12 Pterygopalatine fossa
- 13 Pterygoid process
- 14 Angle of the mandible
- 15 Shadow of the tongue
- 16 Mandibular canal
- 17 Hyoid bone
- 18 Apical foramen of the tooth
- 19 Root canal

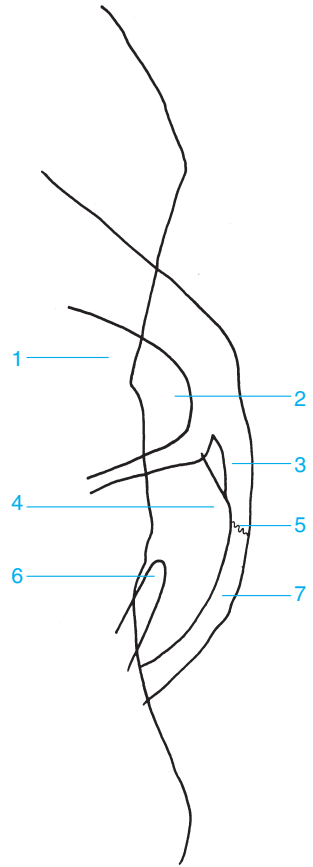
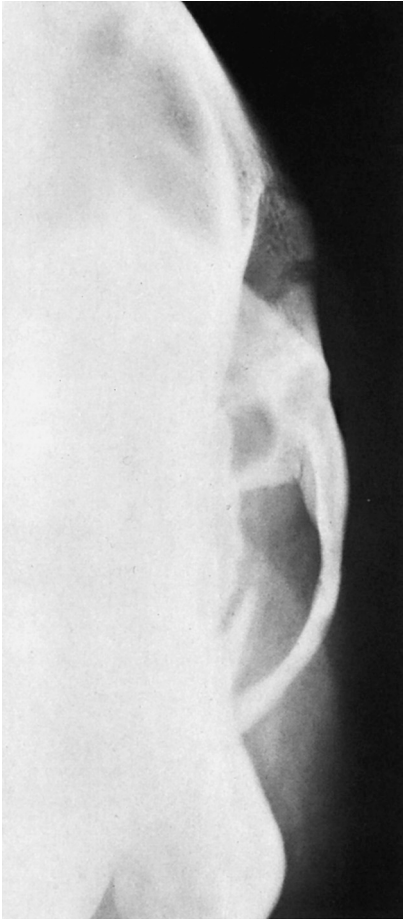
- 20 Pulp cavity
- 21 Dentin
- 22 Enamel
- 23 Mental foramen
- 24 Root of the tooth
- 25 Incisor
- 26 Canine
- 27 Premolar
- 28 Molar





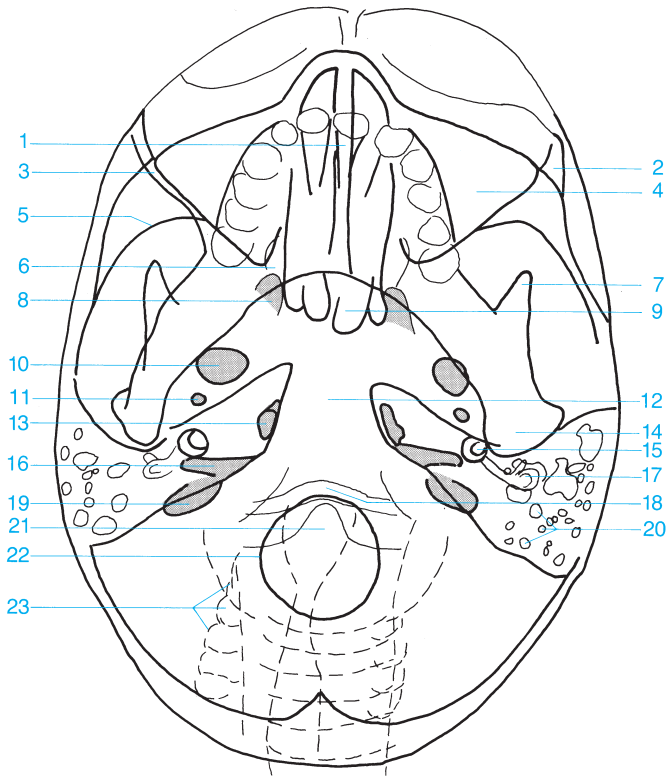
- 1 Frontonasal suture
- 2 Ethmoidal groove
- 3 Nasal bone
- 4 Nasomaxillary suture

- 5 Nasal cartilage
- 6 Maxilla
- 7 Vestibule of nose
- 8 Anterior nasal spine



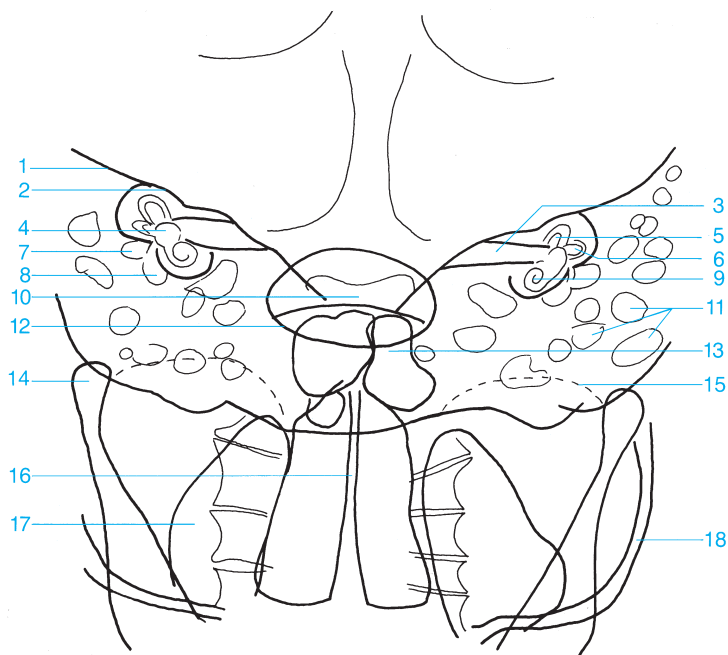
- | | |
|---|--|
| 1 Maxillary sinus | 5 Temporozygomatic suture |
| 2 Zygomatic recess (of the maxillary sinus) | 6 Coronoid process (visualized end on) |
| 3 Zygomatic arch | 7 Zygomatic process of the temporal bone |
| 4 Temporal fossa | |





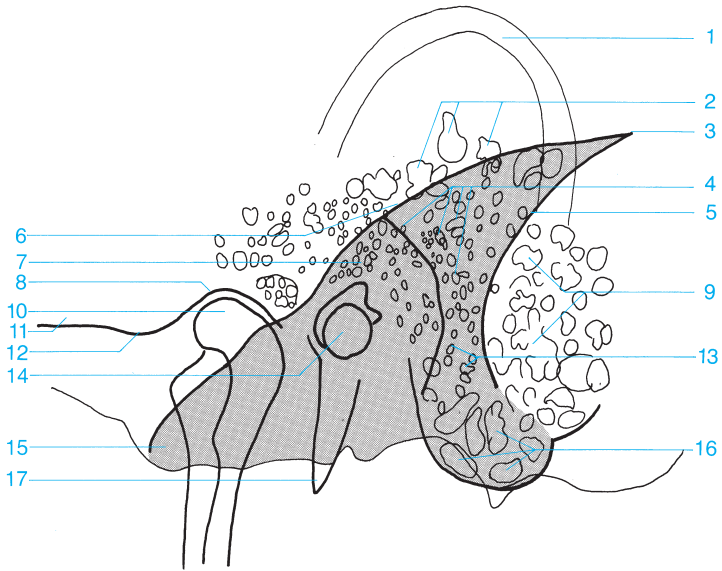
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|--|-------------------------------|
| 1 Nasal septum | 11 Foramen spinosum |
| 2 Zygomatic bone | 12 Clivus |
| 3 Posterior wall of maxillary sinus | 13 Foramen lacerum |
| 4 Maxillary sinus (with orbit, partially superimposed) | 14 Condyle of the mandible |
| 5 Middle cranial fossa, greater wing (anterior wall of middle cranial fossa) | 15 Cochlea |
| 6 Pterygopalatine fossa | 16 Internal auditory canal |
| 7 Coronoid process | 17 Semicircular canals |
| 8 Pterygoid fossa | 18 Anterior arch of the atlas |
| 9 Sphenoid sinus | 19 Jugular foramen |
| 10 Foramen ovale | 20 Mastoid air cells |
| | 21 Dens of the axis |
| | 22 Foramen magnum |
| | 23 Cervical spine |





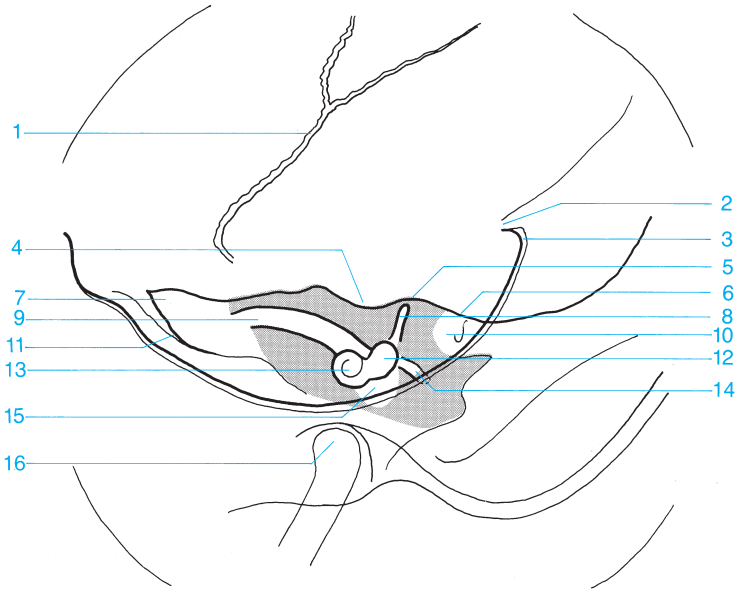
- | | |
|-------------------------------|------------------------------------|
| 1 Petrous ridge | 10 Dorsum sellae |
| 2 Arcuate eminence | 11 Mastoid air cells |
| 3 Internal auditory canal | 12 Foramen magnum |
| 4 Vestibule | 13 Frontal sinus |
| 5 Anterior semicircular canal | 14 Condyle of the mandible |
| 6 Lateral semicircular canal | 15 Roof of the orbit |
| 7 Antrum of the mastoid | 16 Nasal septum and nasal cavities |
| 8 Tympanic cavity | 17 Maxillary sinus |
| 9 Cochlea | 18 Zygomatic arch |





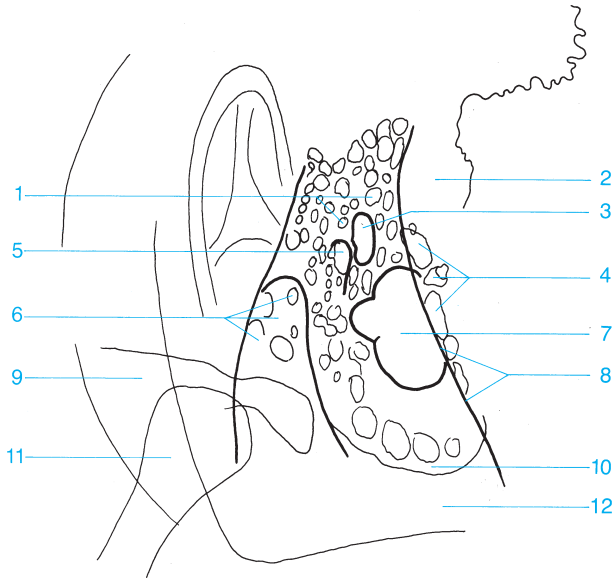
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|---------------------------------------|--|
| 1 Outer ear | 11 Zygomatic process of the temporal bone |
| 2 Squamous air cells | 12 Articular tubercle |
| 3 Angle of Citi | 13 Retrofacial air cells |
| 4 Periantral air cells | 14 Internal and external auditory canal |
| 5 Sulcus of the sigmoid sinus | 15 Apex of the petrous bone |
| 6 Anterior margin of the petrous bone | 16 Air cells in the tip of the mastoid process |
| 7 Antrum of the mastoid | 17 Styloid process |
| 8 Temporomandibular joint fossa | |
| 9 Marginal air cells | |
| 10 Condyle of the mandible | |



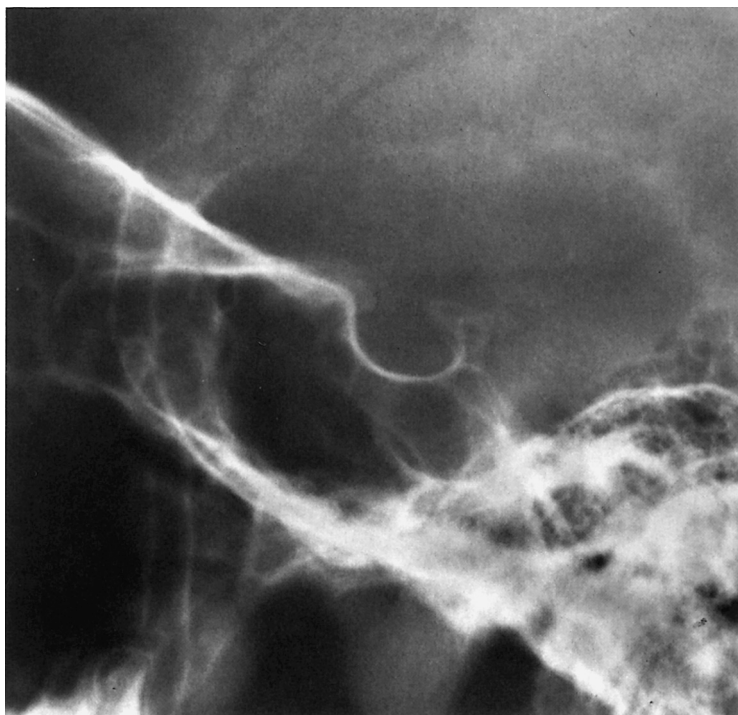


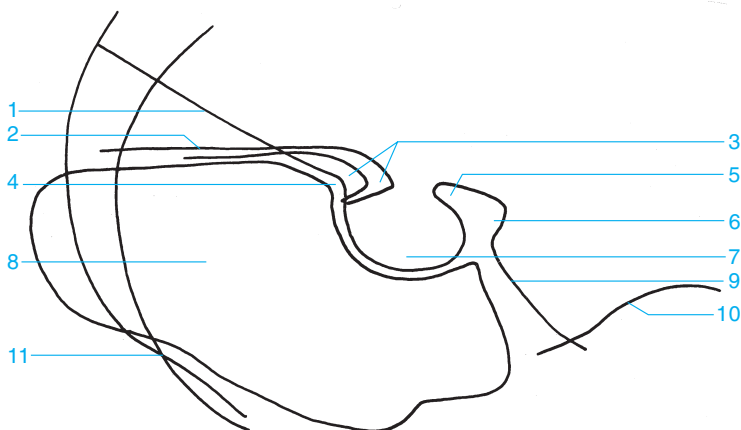
- | | |
|-----------------------------------|-------------------------------|
| 1 Sphenosquamous suture | 9 Internal auditory canal |
| 2 Internal occipital protuberance | 10 Antrum |
| 3 Internal occipital crest | 11 Sphenopetrosal fissure |
| 4 Subarcuate fossa | 12 Vestibule |
| 5 Arcuate eminence | 13 Cochlea |
| 6 Roof of the tympanic cavity | 14 Lateral semicircular canal |
| 7 Apex of the petrous pyramid | 15 Tympanic cavity |
| 8 Anterior semicircular canal | 16 Condyle of the mandible |





- | | |
|---|---|
| 1 Periantral air cells | 7 Osseous labyrinth |
| 2 Sigmoid sinus | 8 Osseous sinus wall (posterior margin of the petrous bone) |
| 3 Antrum | 9 Zygomatic bone |
| 4 Retrosinus air cells | 10 Apex of the mastoid |
| 5 Aperture of mastoid antrum | 11 Condyle of the mandible |
| 6 External auditory canal and tympanic cavity | 12 Apex of the petrous bone |

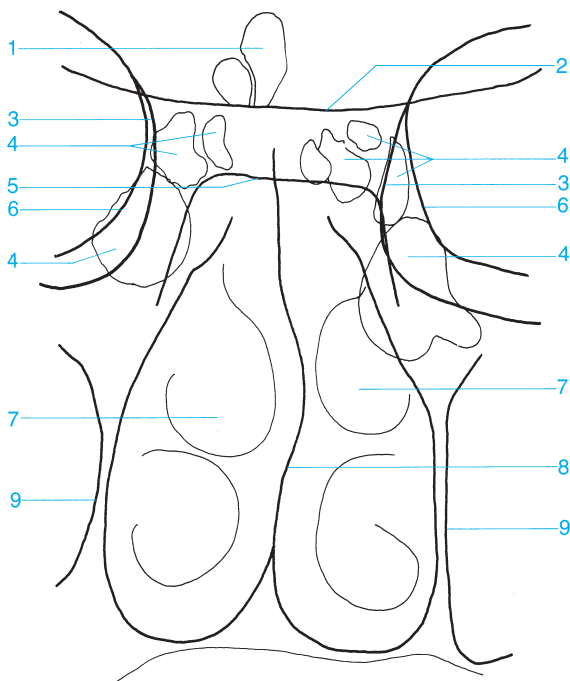




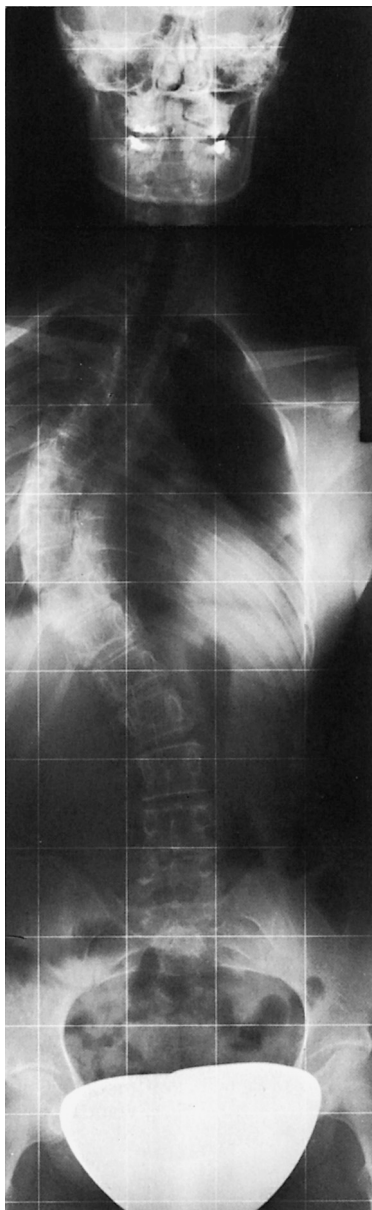
- 1 Floor of anterior cranial fossa and roof of orbits
- 2 Sphenoid
- 3 Anterior clinoid process
- 4 Tuberculum sellae
- 5 Posterior clinoid process

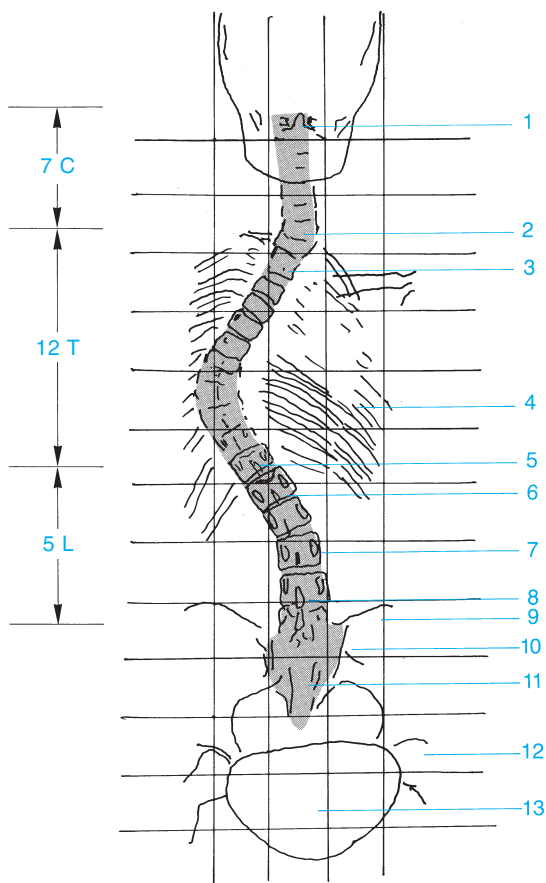
- 6 Dorsum sellae
- 7 Pituitary fossa
- 8 Sphenoid sinus
- 9 Clivus
- 10 Petrous ridge
- 11 Greater wing of the sphenoid





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|--|--------------------------------------|
| 1 Frontal sinuses | 6 Orbital plate |
| 2 Sphenoid | 7 Nasal turbinates |
| 3 Medial wall of orbit | 8 Nasal septum |
| 4 Ethmoid sinus | 9 Medial wall of the maxillary sinus |
| 5 Pituitary fossa (floor of the sella turcica) | |

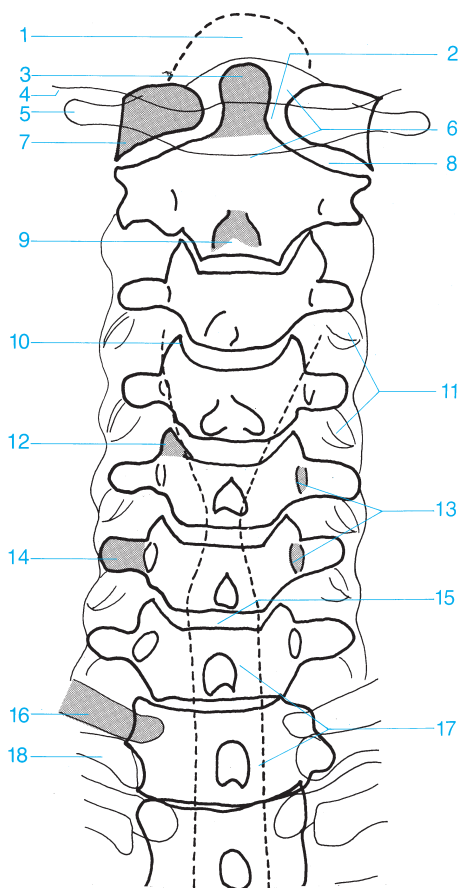




- 1 Dens of the axis
- 2 C7
- 3 T2
- 4 Rib cage
- 5 T12
- 6 L1
- 7 Pedicle, L3

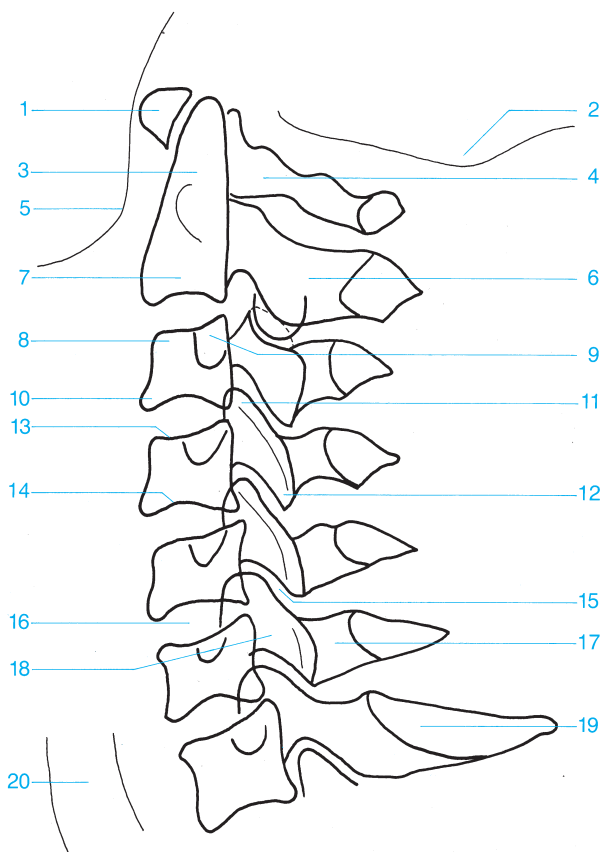
- 8 Spinous process, L6
- 9 Ilium
- 10 Sacroiliac joint
- 11 Sacrum
- 12 Hip
- 13 Gonad shield





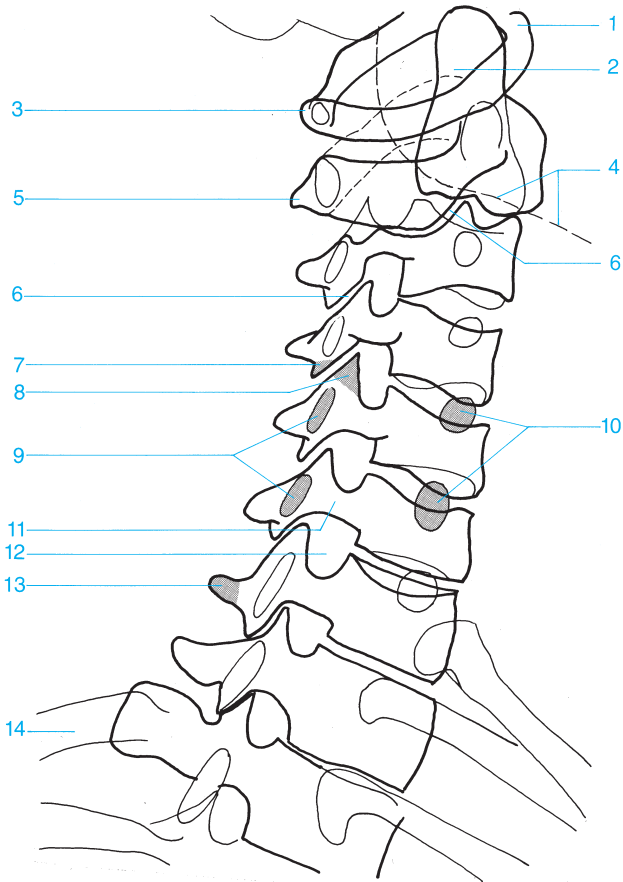
- | | |
|---------------------------|------------------------------------|
| 1 Foramen magnum | 10 Uncovertebral joint |
| 2 Atlantoaxial joint | 11 Overlapping articular processes |
| 3 Dens of the axis | 12 Uncinate process |
| 4 Occipital bone | 13 Pedicle |
| 5 Transverse process | 14 Transverse process |
| 6 Vertebral arch | 15 Intervertebral disk space |
| 7 Lateral mass of C1 | 16 Transverse process of T1 |
| 8 Atlantoaxial joint | 17 Radiolucent band of the trachea |
| 9 Spinous process (bifid) | 18 First rib |





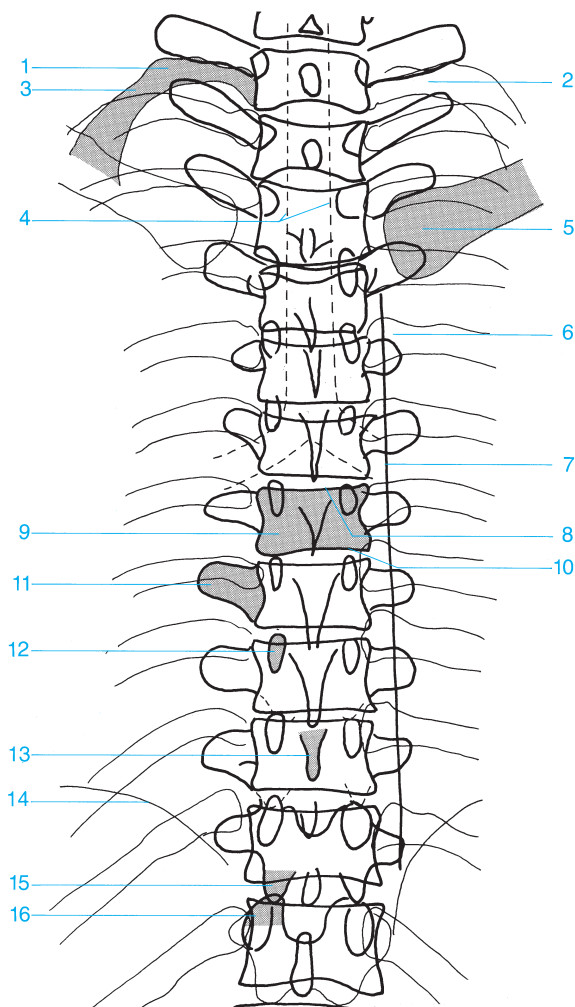
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|---|---------------------------------|
| 1 Anterior arch of the atlas | 11 Superior articular facet |
| 2 Base of the skull | 12 Inferior articular facet |
| 3 Odontoid process | 13 Superior vertebral end plate |
| 4 Posterior arch of the atlas | 14 Inferior vertebral end plate |
| 5 Mandible | 15 Intervertebral facet joint |
| 6 Spinous process | 16 Intervertebral disk space |
| 7 Body of the axis | 17 Lamina |
| 8 Anterior superior margin of the vertebra | 18 Articular pillar |
| 9 Transverse process | 19 Spinous process |
| 10 Anterior inferior margin of the vertebra | 20 Trachea |





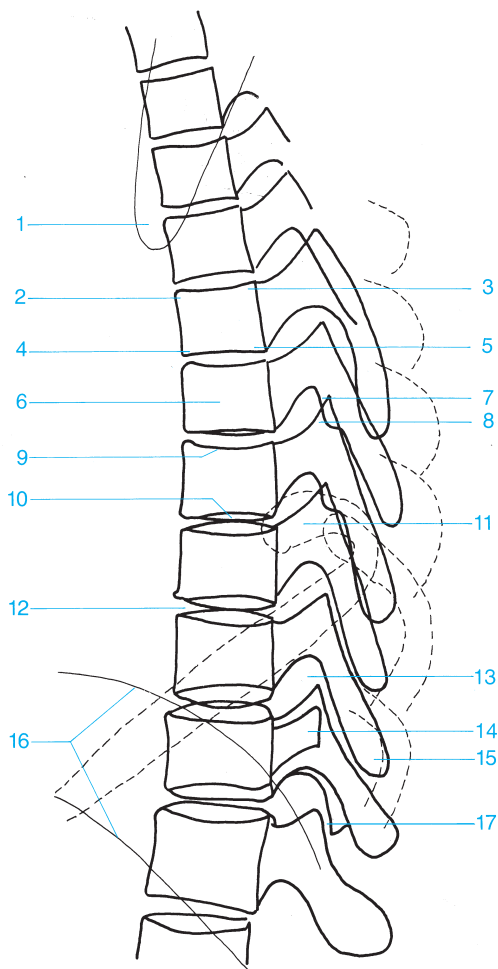
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|------------------------------|------------------------------|
| 1 Anterior arch | 8 Superior articular process |
| 2 Odontoid process | 9 Transverse process |
| 3 Atlas | 10 Contralateral pedicle |
| 4 Mandible | 11 Pedicle |
| 5 Body of C2 | 12 Intervertebral foramen |
| 6 Facet joint | 13 Spinous process |
| 7 Inferior articular process | 14 Ribs |



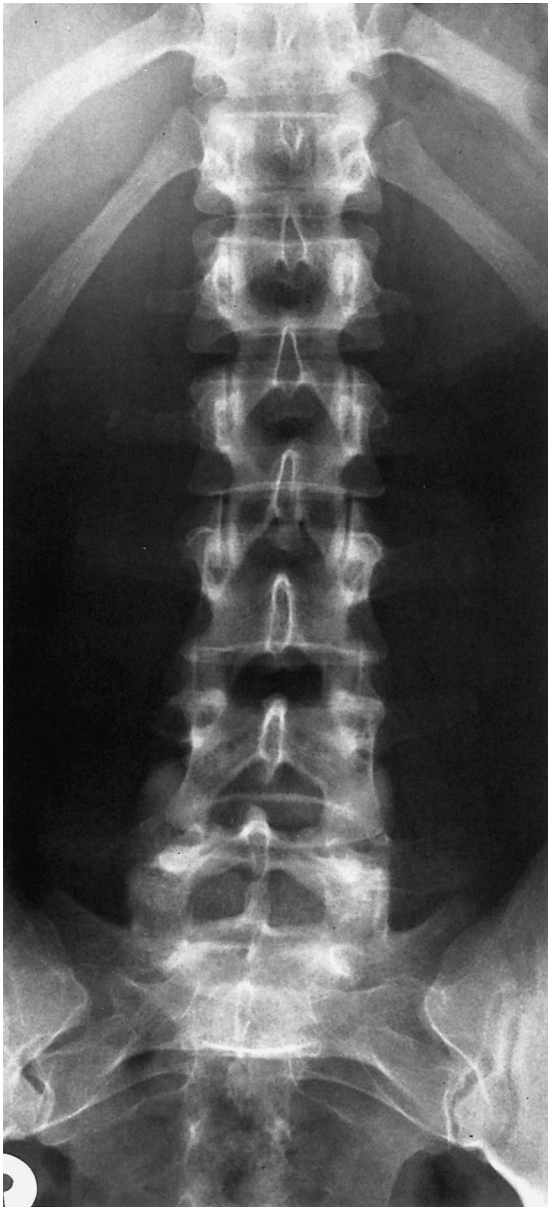


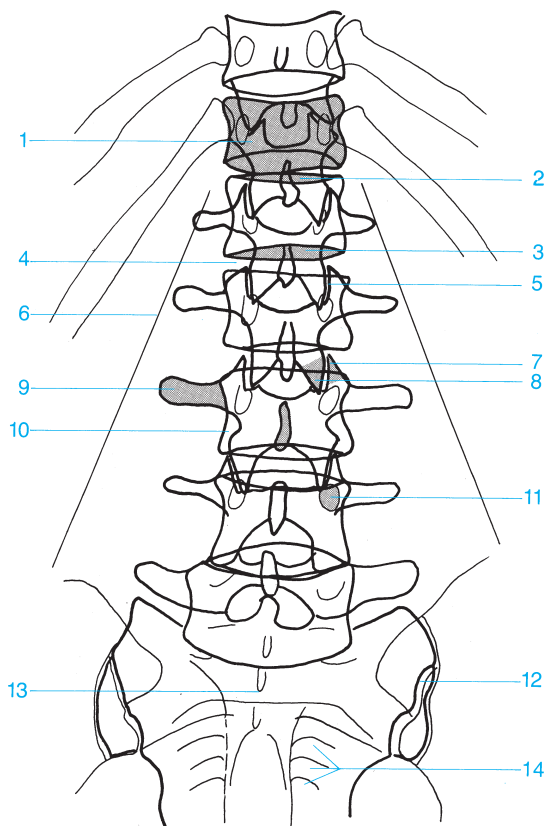
- | | |
|--------------------------------|---------------------------------|
| 1 Tubercle of first rib | 9 Body of vertebra |
| 2 Neck of the rib | 10 Inferior vertebral end plate |
| 3 First rib | 11 Transverse process |
| 4 Trachea | 12 Pedicle |
| 5 Clavicle | 13 Spinous process |
| 6 Head of the rib | 14 Diaphragm |
| 7 Paravertebral line | 15 Inferior articular process |
| 8 Superior vertebral end plate | 16 Superior articular process |





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|--------------------------------|---------------------------------|
| 1 Scapula | 10 Inferior vertebral end plate |
| 2 Anterior superior margin | 11 Head of the rib |
| 3 Posterior superior margin | 12 Intervertebral disk space |
| 4 Anterior inferior margin | 13 Intervertebral foramen |
| 5 Posterior inferior margin | 14 Transverse process |
| 6 Body of vertebra | 15 Spinous process |
| 7 Superior articular process | 16 Diaphragm |
| 8 Inferior articular process | 17 Facet joint |
| 9 Superior vertebral end plate | |

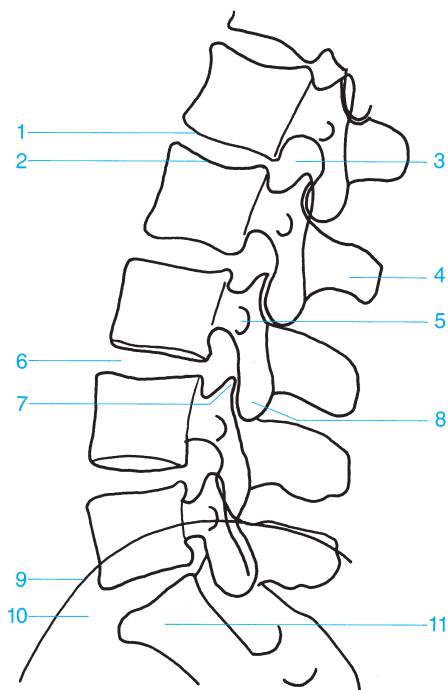




- 1 Body of vertebra
- 2 Superior vertebral end plate
- 3 Inferior vertebral end plate
- 4 Intervertebral disk space
- 5 Facet joint
- 6 Psoas
- 7 Superior articular process

- 8 Inferior articular process
- 9 Transverse process
- 10 Spinous process
- 11 Pedicle
- 12 Sacroiliac joint
- 13 Sacrum
- 14 Sacral foramina

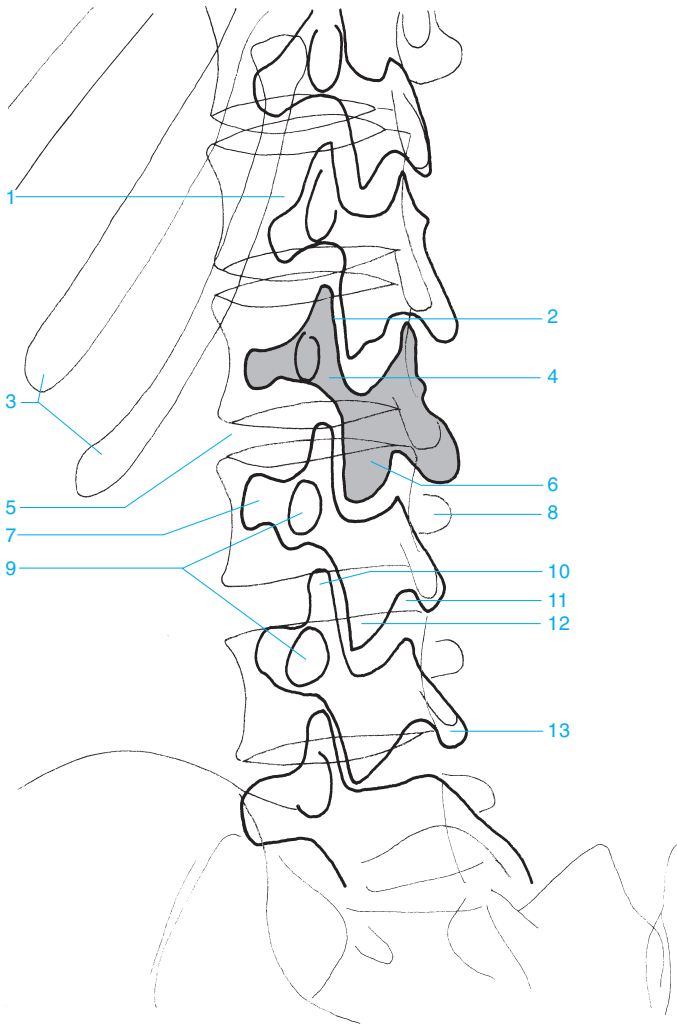




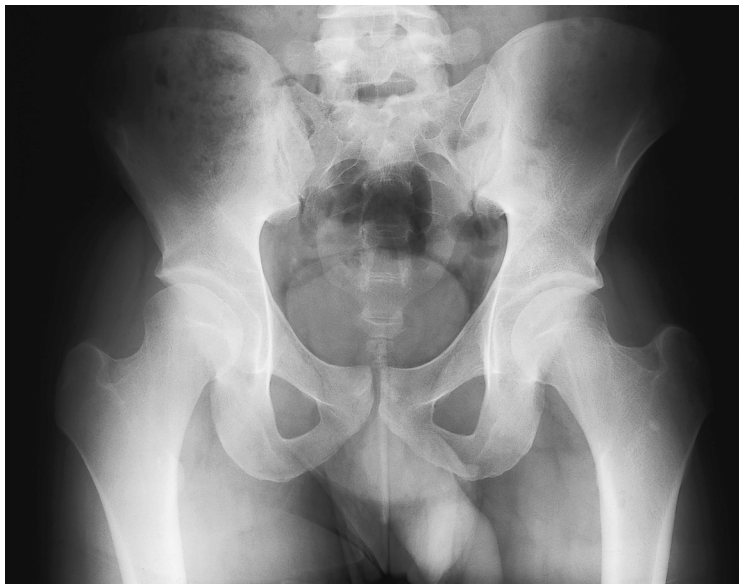
- 1 Superior vertebral end plate
- 2 Inferior vertebral end plate
- 3 Intervertebral foramen
- 4 Spinous process
- 5 Transverse process
- 6 Intervertebral disk space

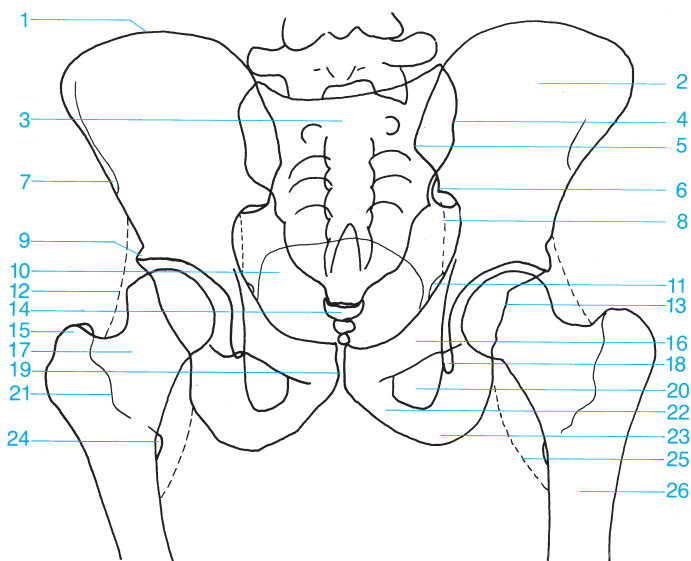
- 7 Superior articular process
- 8 Inferior articular process
- 9 Iliac crest
- 10 Promontory
- 11 Sacrum



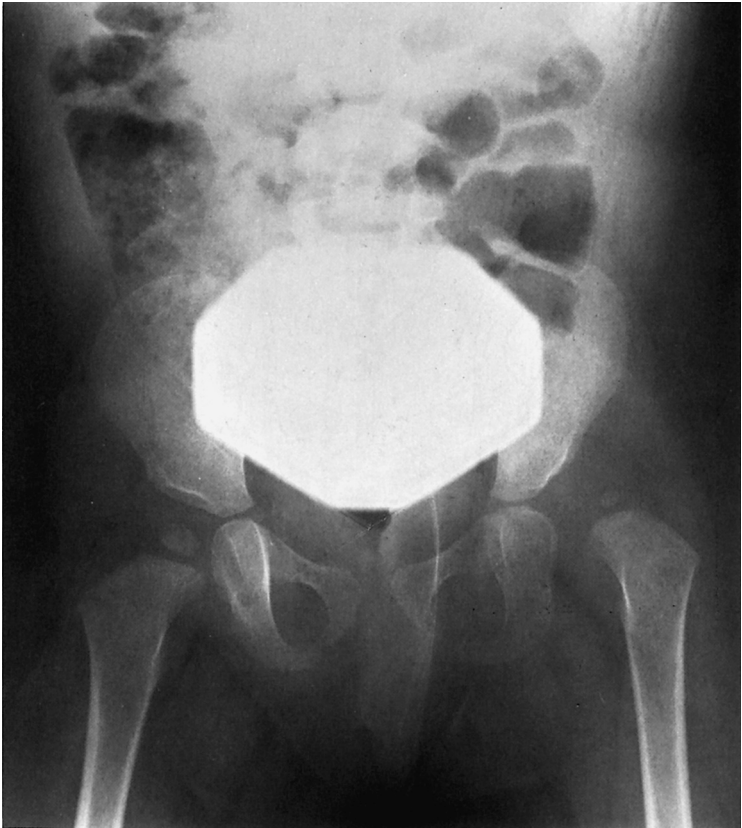


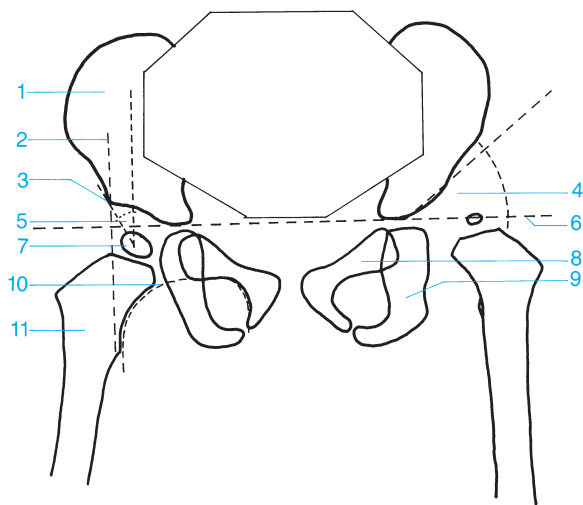
- | | |
|---|---|
| 1 Body of vertebra | 8 Contralateral transverse process |
| 2 Intervertebral disk space | 9 Pedicle |
| 3 Ribs | 10 Superior articular process |
| 4 Interarticular part | 11 Intervertebral foramen |
| 5 Intervertebral disk space | 12 Inferior articular process |
| 6 Lamina | 13 Spinous process |
| 7 Ipsilateral transverse process | |



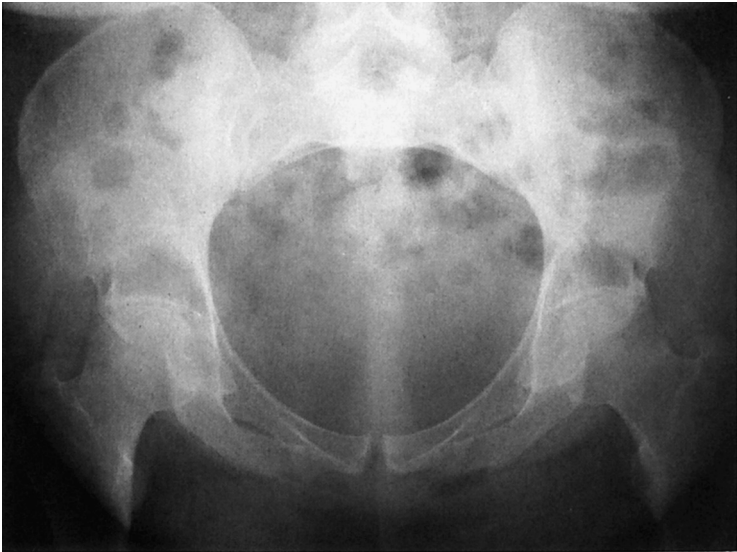


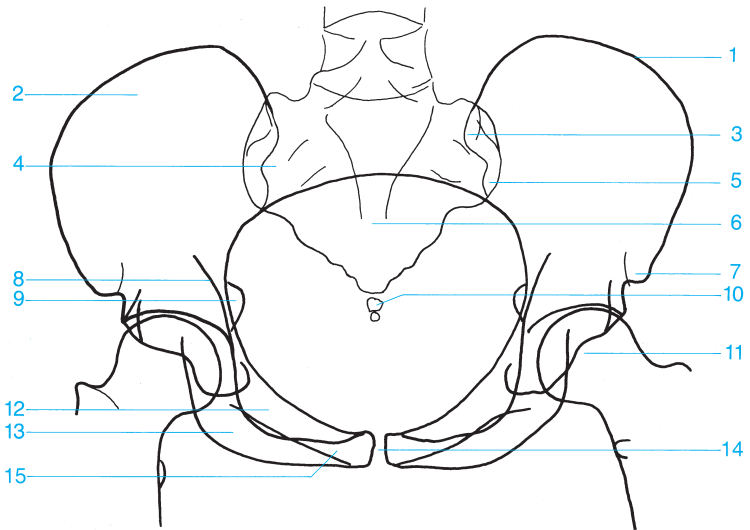
- | | |
|---|---------------------------------------|
| 1 Iliac crest | 14 Coccyx |
| 2 Iliac wing | 15 Greater trochanter |
| 3 Sacrum | 16 Superior pubic ramus |
| 4 Sacroiliac joint | 17 Femoral neck |
| 5 Posterior superior iliac spine | 18 Acetabular teardrop |
| 6 Posterior inferior iliac spine | 19 Pubic symphysis |
| 7 Anterior superior iliac spine | 20 Obturator foramen |
| 8 Obturator internus | 21 Intertrochanteric crest |
| 9 Acetabular convexity (promontory) | 22 Inferior pubic ramus |
| 10 Urinary bladder | 23 Ischial tuberosity |
| 11 Spine of the ischium | 24 Lesser trochanter |
| 12 Fat stripe medial to the gluteus minimus | 25 Fat stripe medial to the iliopsoas |
| 13 Posterior acetabular rim | 26 Femur |





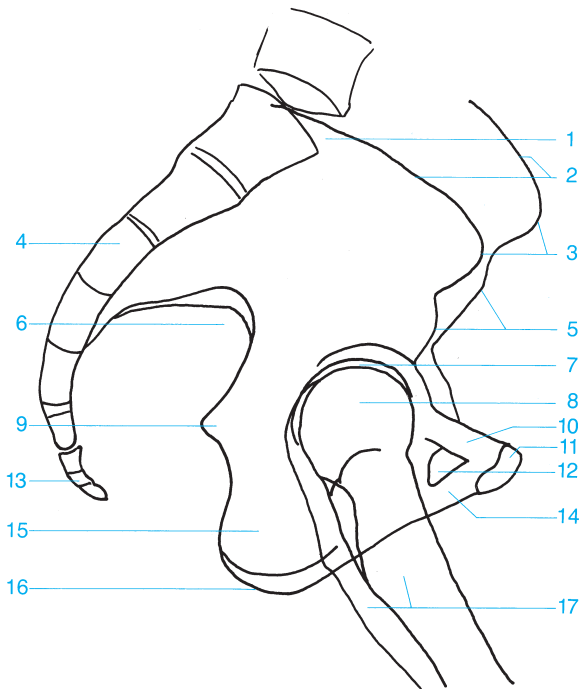
- | | |
|--|--|
| 1 Ilium | 6 Hilgenreiner's line (triradiate cartilage line) |
| 2 Perkin's line (vertical line from the roof of the acetabulum intersecting Hilgenreiner's line) | 7 Femoral epiphysis |
| 3 Acetabular convexity (promontory) | 8 Pubic bone |
| 4 Angle of acetabular inclination | 9 Ischium |
| 5 Wiberg's center-to-corner angle (the angle between a vertical line drawn from the center of the epiphysis and a line drawn from the roof of the acetabulum to the center of the epiphysis) | 10 Shenton's line (curved line formed by the superior curve of the obturator foramen and the femoral neck) |
| | 11 Femur |





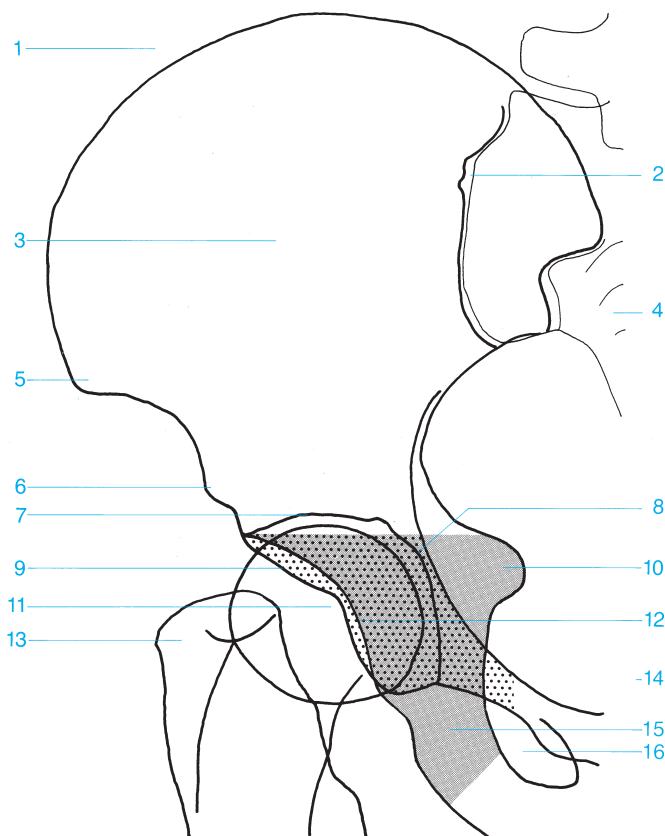
- | | |
|----------------------------------|-------------------------|
| 1 Iliac crest | 9 Spine of the ischium |
| 2 Iliac wing | 10 Coccyx |
| 3 Posterior superior iliac spine | 11 Femoral head |
| 4 Sacral ala | 12 Superior pubic ramus |
| 5 Posterior inferior iliac spine | 13 Ischial tuberosity |
| 6 Sacrum | 14 Pubic symphysis |
| 7 Anterior superior iliac spine | 15 Inferior pubic ramus |
| 8 Iliopubic line | |





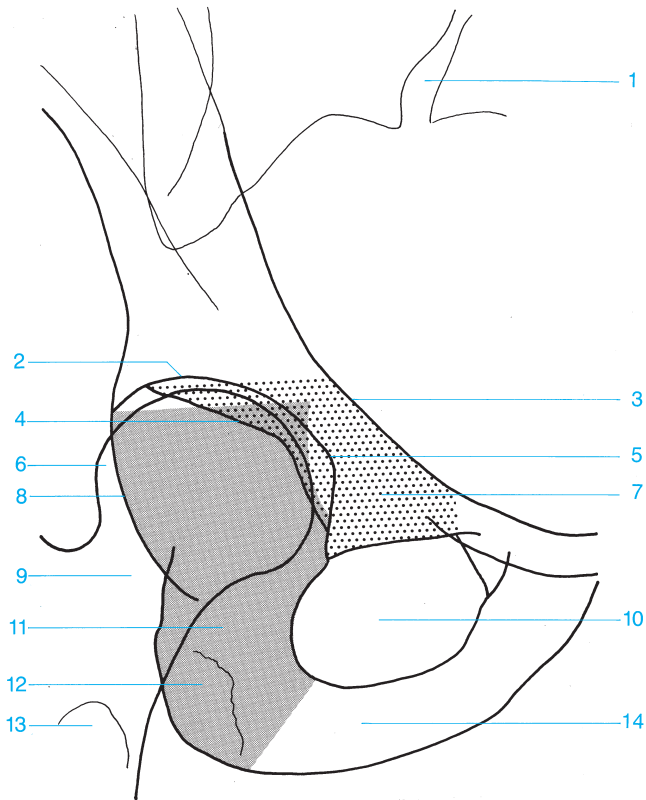
- | | |
|---------------------------------|-------------------------|
| 1 Promontory | 10 Superior pubic ramus |
| 2 Iliac crest | 11 Pubic symphysis |
| 3 Anterior superior iliac spine | 12 Obturator foramen |
| 4 Sacrum | 13 Coccyx |
| 5 Anterior inferior iliac spine | 14 Inferior pubic ramus |
| 6 Greater sciatic notch | 15 Body of the ischium |
| 7 Joint space of the hip | 16 Ischial tuberosity |
| 8 Femoral head | 17 Femur |
| 9 Spine of the ischium | |





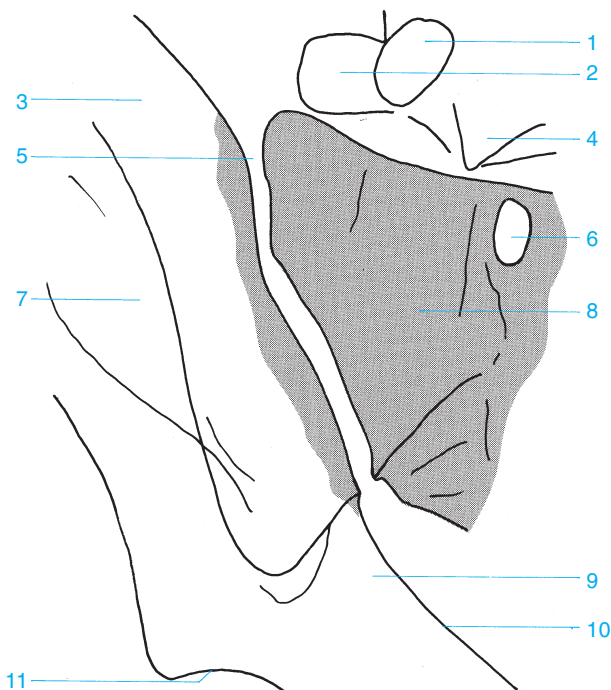
- | | |
|---------------------------------|---------------------------------|
| 1 Iliac crest | 9 Anterior acetabular rim |
| 2 Sacroiliac joint | 10 Spine of the ischium |
| 3 Iliac wing | 11 Femoral head |
| 4 Sacrum | 12 Posterior acetabular rim |
| 5 Anterior superior iliac spine | 13 Greater trochanter |
| 6 Anterior inferior iliac spine | 14 Pubic bone (anterior column) |
| 7 Roof of the acetabulum | 15 Ischium (posterior column) |
| 8 Floor of the acetabulum | 16 Obturator foramen |





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|--------------------------------|-------------------------------|
| 1 Sacroiliac joint | 8 Posterior acetabular rim |
| 2 Roof of the acetabulum | 9 Femoral neck |
| 3 Ilipectineal line | 10 Obturator foramen |
| 4 Anterior acetabular rim | 11 Ischium (posterior column) |
| 5 Anterior acetabular floor | 12 Ischial tuberosity |
| 6 Femoral head | 13 Lesser trochanter |
| 7 Pubic bone (anterior column) | 14 Inferior pubic ramus |

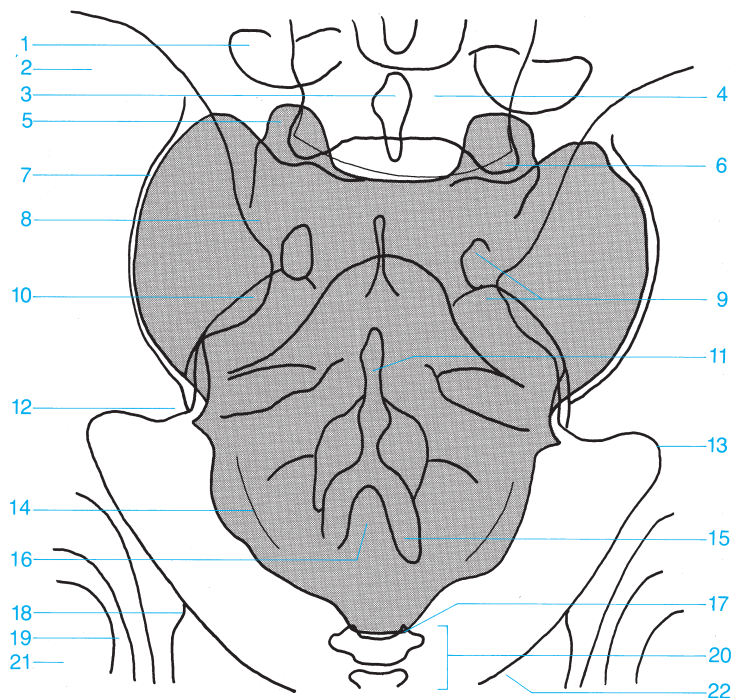




- 1 Pedicle of L5
- 2 Transverse process of L5
- 3 Iliac wing
- 4 Body of vertebra L5
- 5 Sacroiliac joint
- 6 Sacral foramen

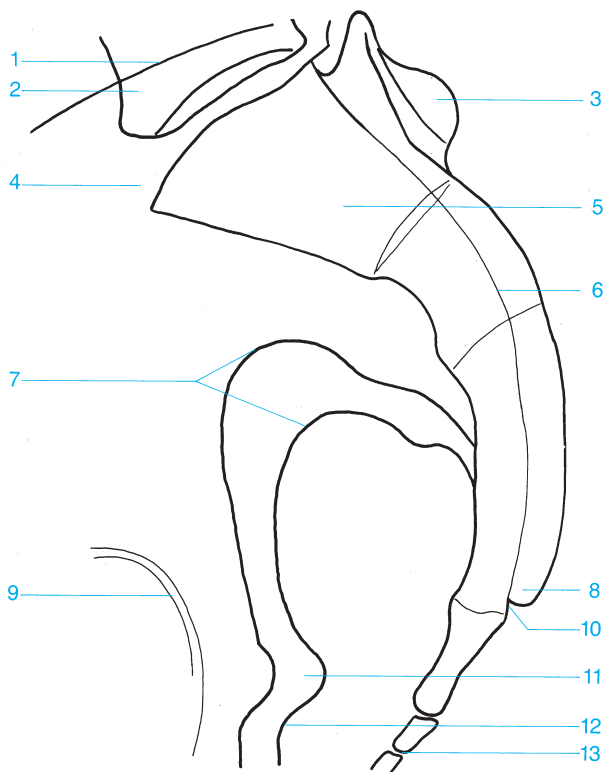
- 7 Iliac wing
- 8 Lateral part of the sacrum
- 9 Ilium
- 10 Arcuate line
- 11 Roof of the acetabulum





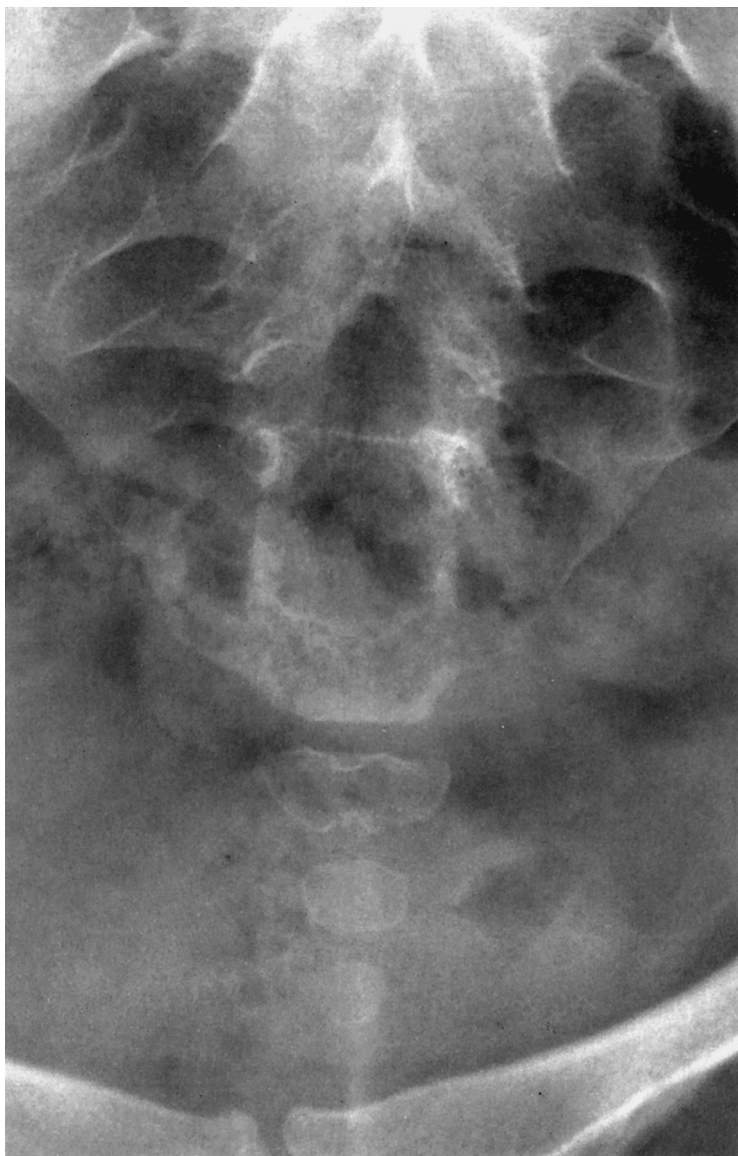
- | | |
|------------------------------------|-----------------------------------|
| 1 Transverse process | 12 Posterior inferior iliac spine |
| 2 Iliac wing | 13 Greater sciatic notch |
| 3 Spinous process | 14 Lateral sacral crest |
| 4 L5 | 15 Cornu of the sacrum |
| 5 Superior articular process | 16 Sacral hiatus |
| 6 Inferior articular process of L5 | 17 Cornu of the coccyx |
| 7 Sacroiliac joint | 18 Spine of the ischium |
| 8 Sacral ala | 19 Hip |
| 9 Sacral foramina | 20 Coccyx |
| 10 Posterior superior iliac spine | 21 Femoral head |
| 11 Median sacral crest | 22 Superior pubic ramus |

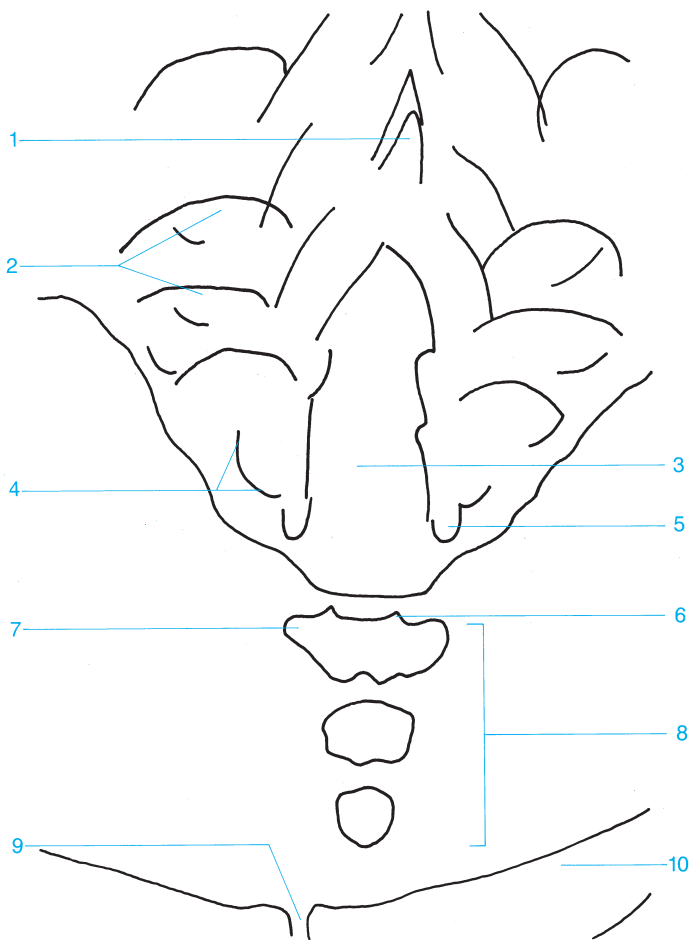




- 1 Iliac crest
- 2 L5
- 3 Median sacral crest
- 4 Promontory
- 5 Sacrum
- 6 Sacral canal
- 7 Greater sciatic notch

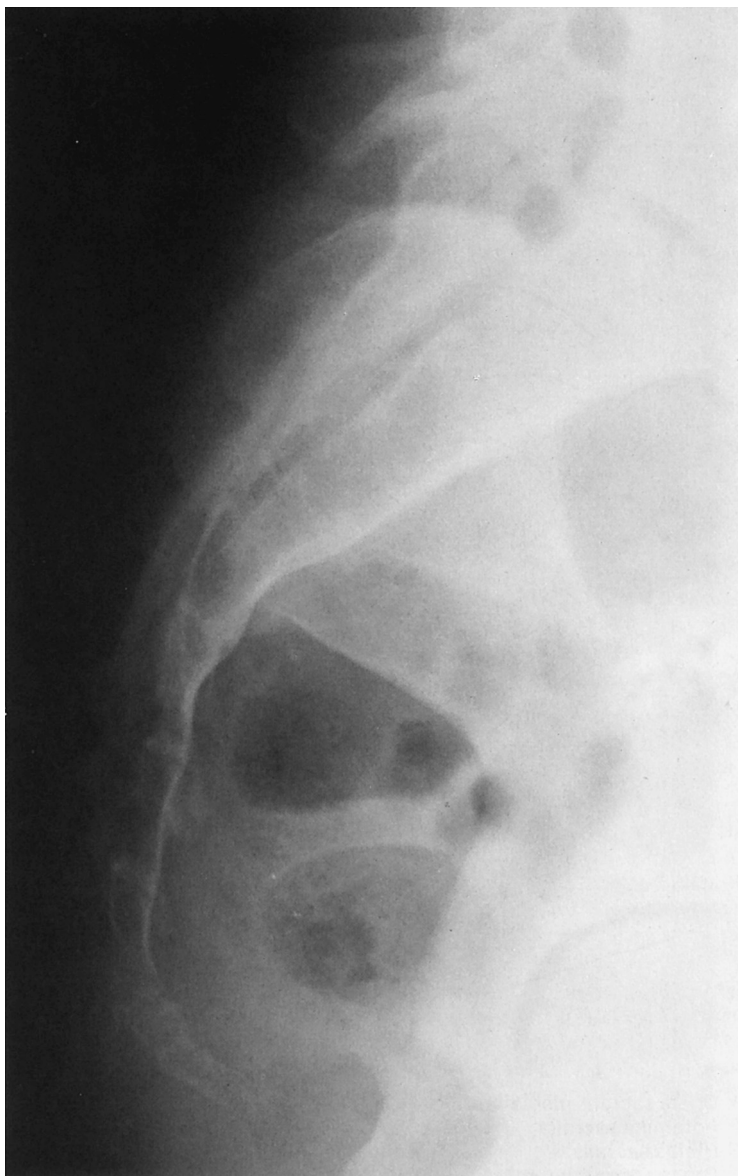
- 8 Cornu of the sacrum
- 9 Hip
- 10 Sacral canal
- 11 Spine of the ischium
- 12 Lesser sciatic notch
- 13 Coccyx

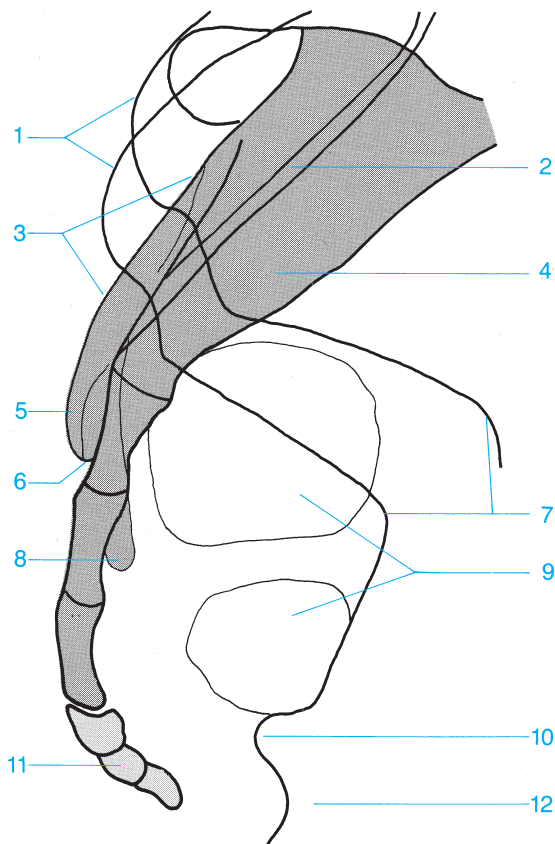




- 1 Median sacral crest
- 2 Sacral foramina
- 3 Sacral hiatus
- 4 Lateral sacral crest
- 5 Cornu of the sacrum

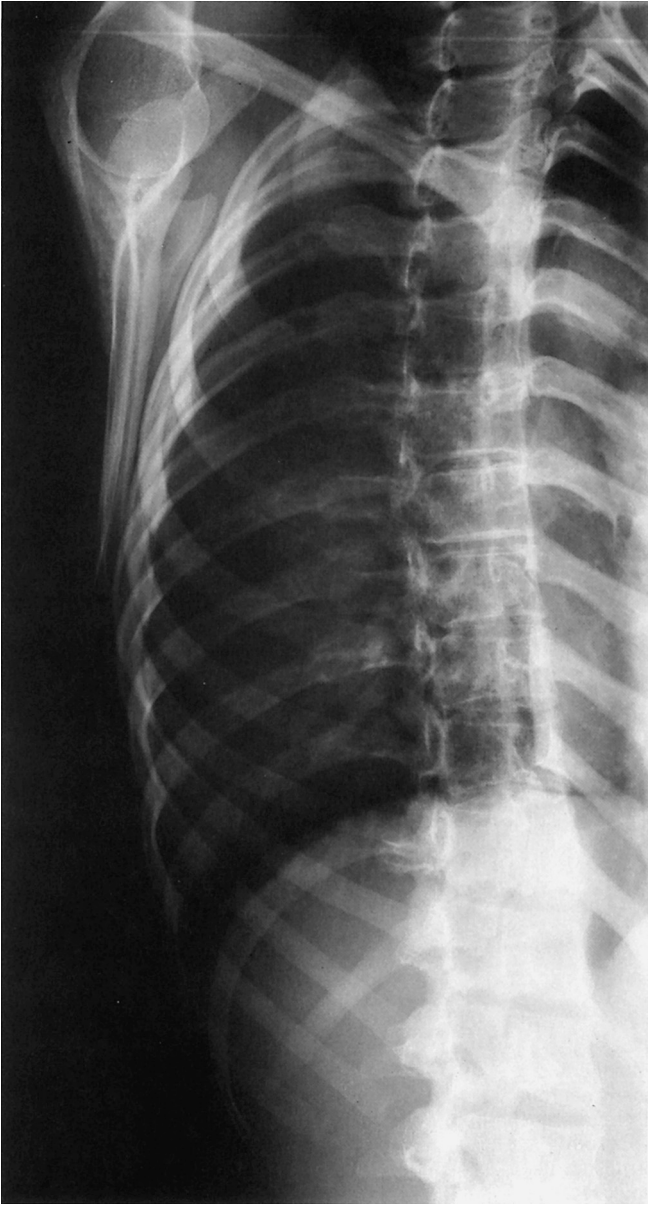
- 6 Cornu of the coccyx
- 7 Transverse process
- 8 Coccyx
- 9 Pubic symphysis
- 10 Superior pubic ramus

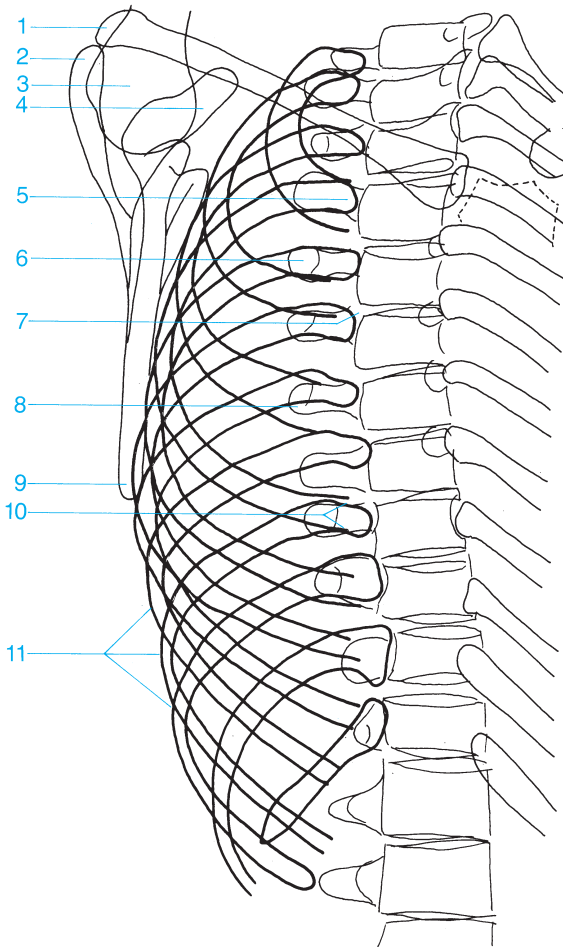




- 1 Iliac crest
- 2 Sacral canal
- 3 Median sacral crest
- 4 Sacrum
- 5 Cornu of the sacrum
- 6 Sacral canal

- 7 Greater sciatic notch
- 8 Lateral sacral crest
- 9 Rectal gas
- 10 Spine of the ischium
- 11 Coccyx
- 12 Ischium

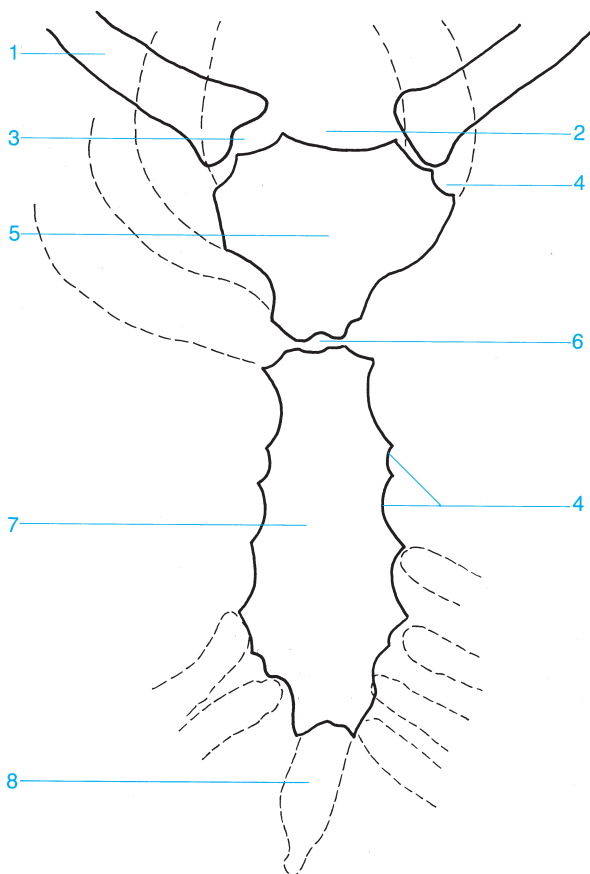




- 1 Clavicle (distal end)
- 2 Acromion
- 3 Humeral head
- 4 Coracoid process
- 5 Head of the rib
- 6 Costotransverse joint

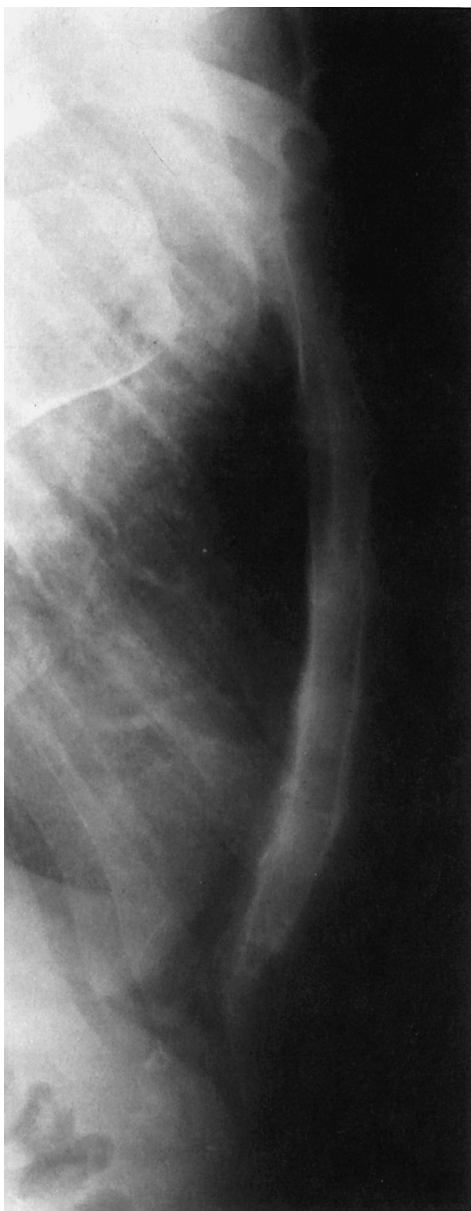
- 7 Costovertebral articulation
- 8 Transverse process
- 9 Inferior angle of the scapula
- 10 Neck of the rib
- 11 Costal arch

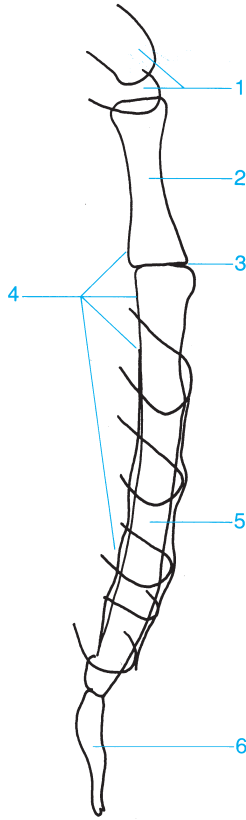




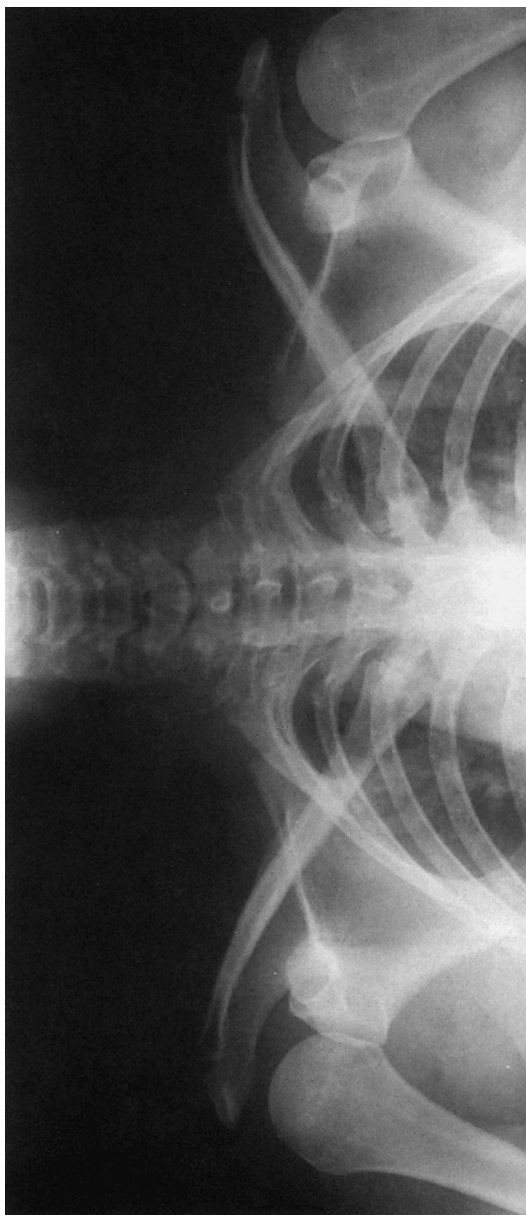
- 1 Clavicle
- 2 Sternal notch
- 3 Sternoclavicular joint
- 4 Costal notch

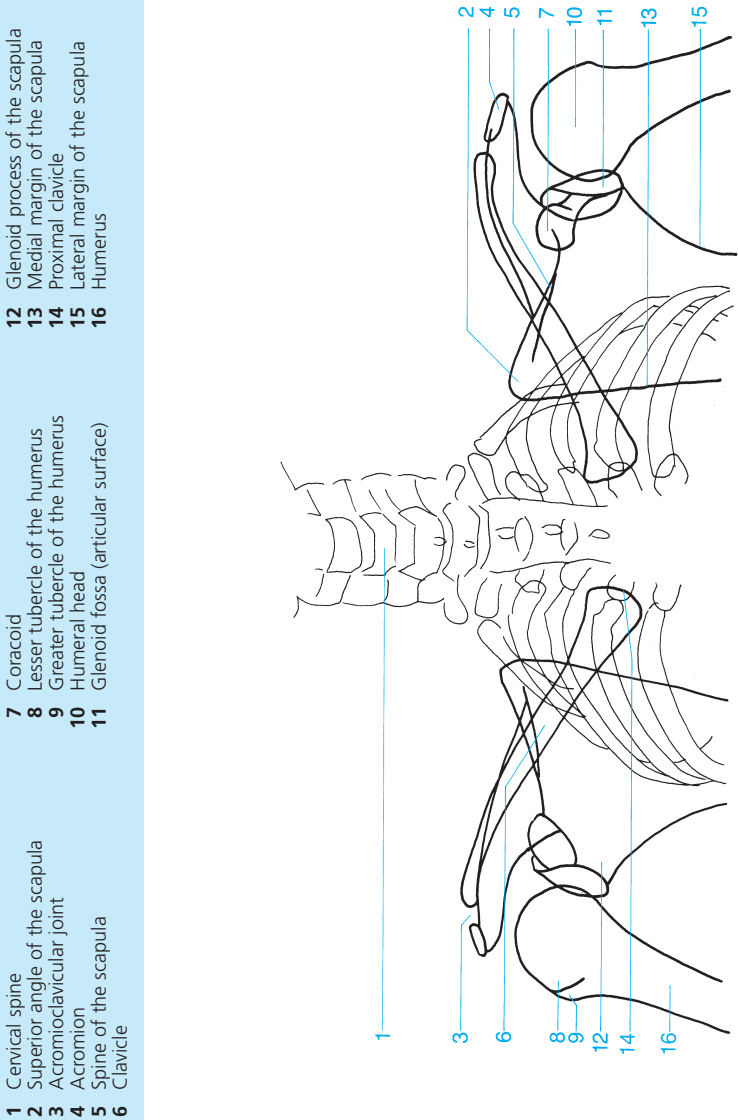
- 5 Manubrium of the sternum
- 6 Sternal angle
- 7 Body of the sternum
- 8 Xiphoid process





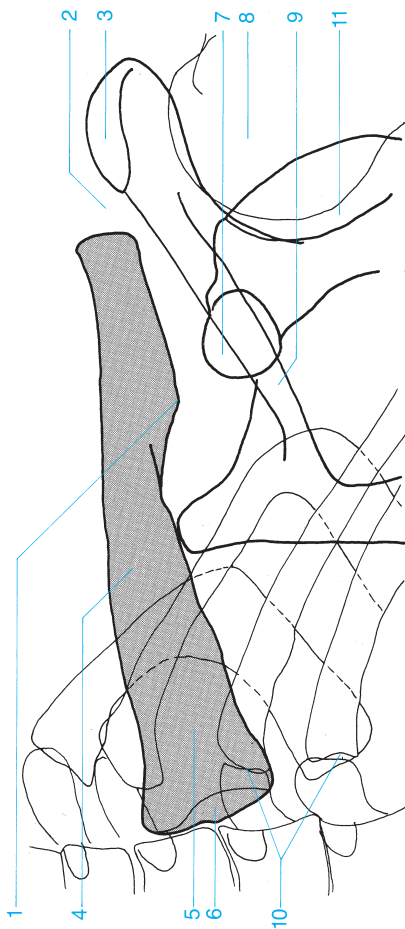
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|----------------------------|-----------------------|
| 1 Clavicles | 4 Retrosternal space |
| 2 Manubrium of the sternum | 5 Body of the sternum |
| 3 Sternal angle | 6 Xiphoid process |





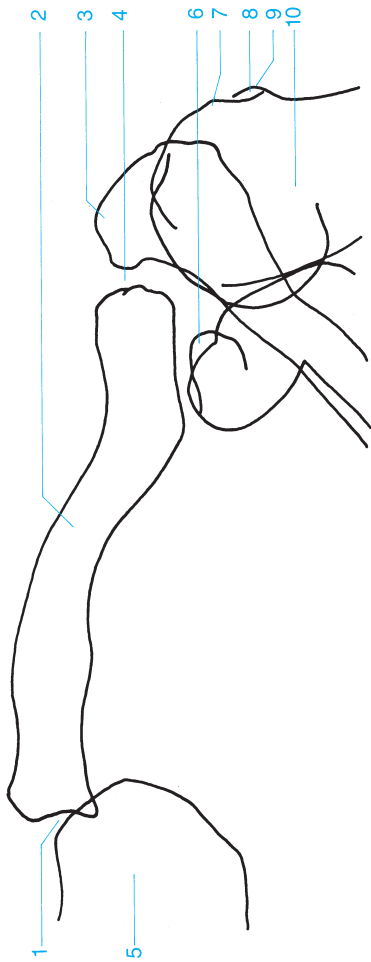


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|--|--|---------------------------------|
| 1 Conoid tubercle of the clavicle | 5 Superior angle of the scapula | 9 Spine of the scapula |
| 2 Acromioclavicular joint | 6 Proximal clavicle | 10 Costoclavicular joint |
| 3 Acromion | 7 Coracoid process | 11 Glenoid fossa |
| 4 Clavicle | 8 Humeral head | |



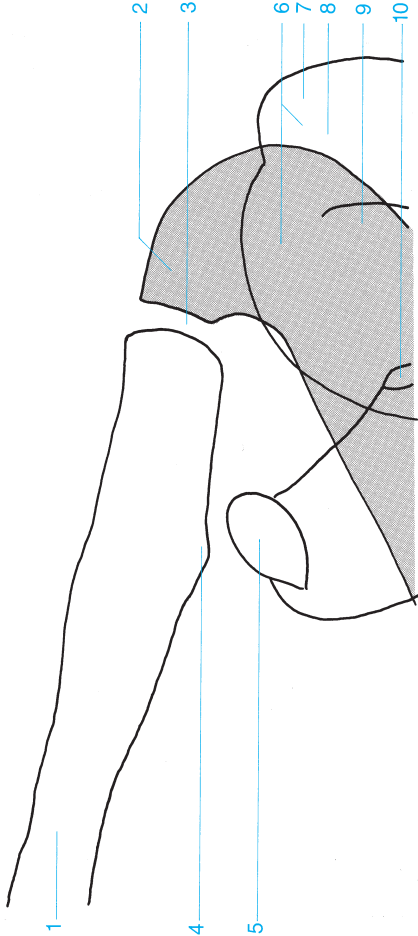


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|---|-------------------------|----|---------------------------------|
| 1 | Sternoclavicular joint | 6 | Coracoid process |
| 2 | Clavicle | 7 | Greater tubercle of the humerus |
| 3 | Acromion | 8 | Bicipital groove |
| 4 | Acromioclavicular joint | 9 | Lesser tubercle of the humerus |
| 5 | Sternum (manubrium) | 10 | Humeral head |

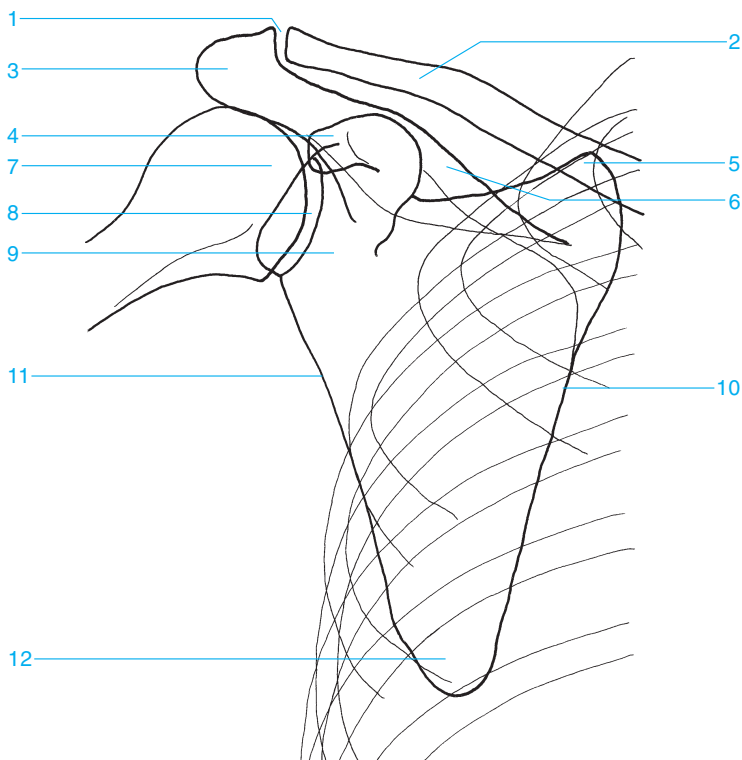




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|-----------------------------------|-----------------------------------|
| 1 Clavicle | 6 Humeral head |
| 2 Acromion | 7 Greater tubercle of the humerus |
| 3 Acromioclavicular joint | 8 Bicipital groove |
| 4 Conoid tubercle of the clavicle | 9 Lesser tubercle of the humerus |
| 5 Coracoid process | 10 Glenoid fossa |

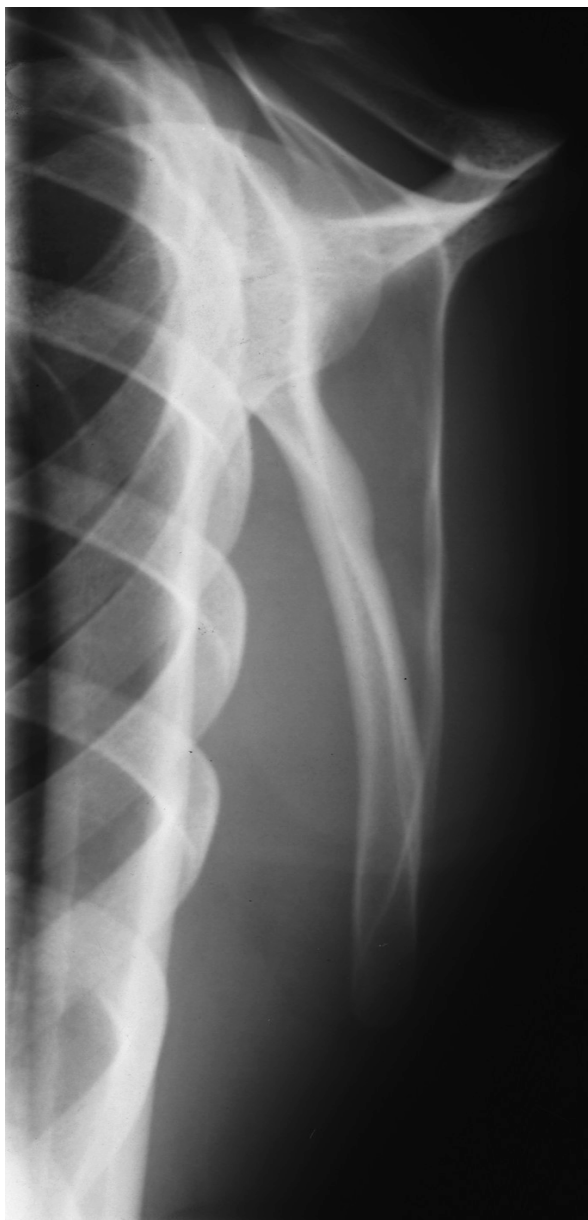


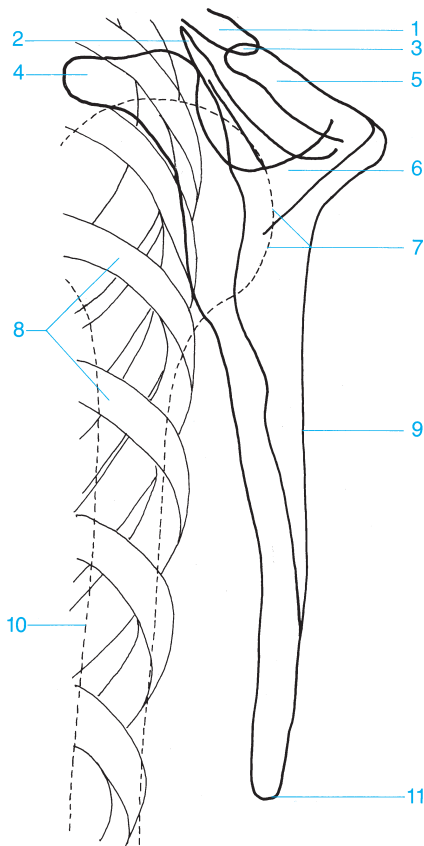




- 1 Acromioclavicular joint
- 2 Clavicle
- 3 Acromion
- 4 Coracoid process
- 5 Superior angle
- 6 Spine of the scapula
- 7 Humeral head

- 8 Articular surface
- 9 Lateral process (neck) of the scapula
- 10 Medial margin
- 11 Lateral margin
- 12 Inferior angle

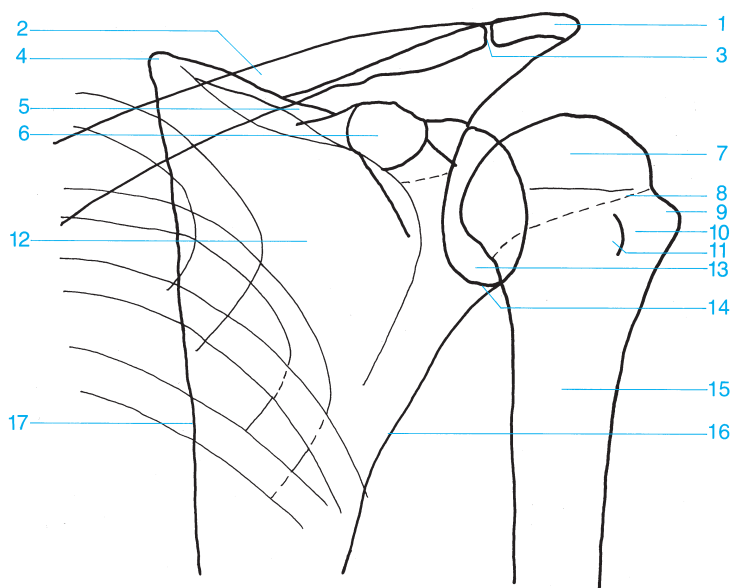




- 1 Distal clavicle
- 2 Superior angle of the scapula
- 3 Acromioclavicular joint
- 4 Coracoid process
- 5 Acromion
- 6 Spine of the scapula

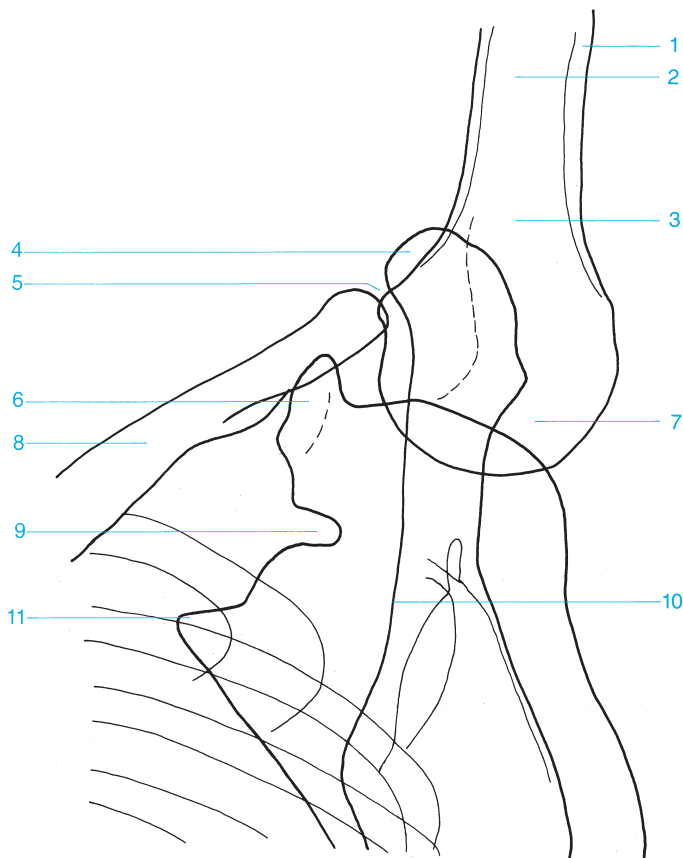
- 7 Humeral head
- 8 Ribs
- 9 Lateral margin of the scapula
- 10 Humeral shaft
- 11 Inferior angle of the scapula





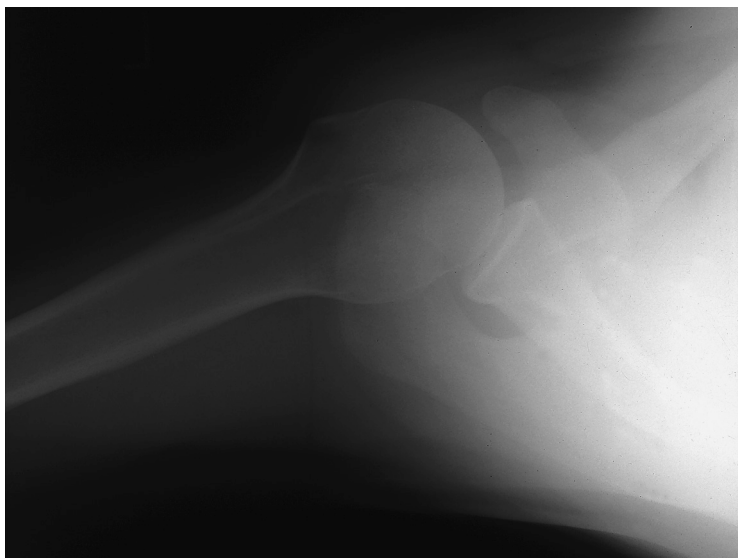
- | | |
|-----------------------------------|-----------------------------------|
| 1 Acromion | 10 Bicipital groove |
| 2 Clavicle | 11 Lesser tubercle of the humerus |
| 3 Acromioclavicular joint | 12 Scapula |
| 4 Superior angle of the scapula | 13 Glenoid fossa |
| 5 Spine of the scapula | 14 Glenoid labrum |
| 6 Coracoid process | 15 Surgical neck |
| 7 Humeral head | 16 Lateral margin of the scapula |
| 8 Anatomical neck | 17 Medial margin of the scapula |
| 9 Greater tubercle of the humerus | |

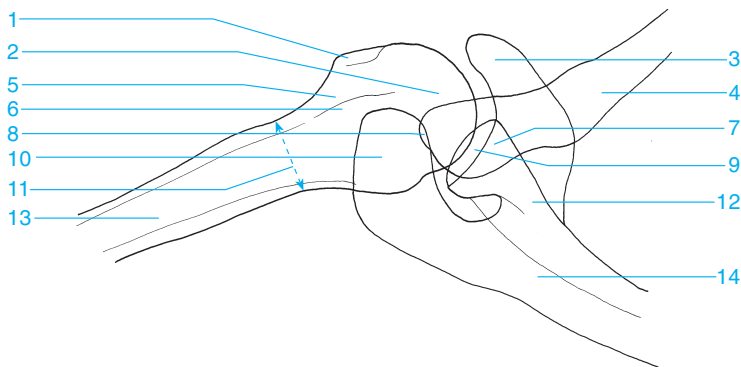




- 1 Cortex
- 2 Metaphysis
- 3 Surgical neck
- 4 Acromion
- 5 Acromioclavicular joint
- 6 Coracoid process

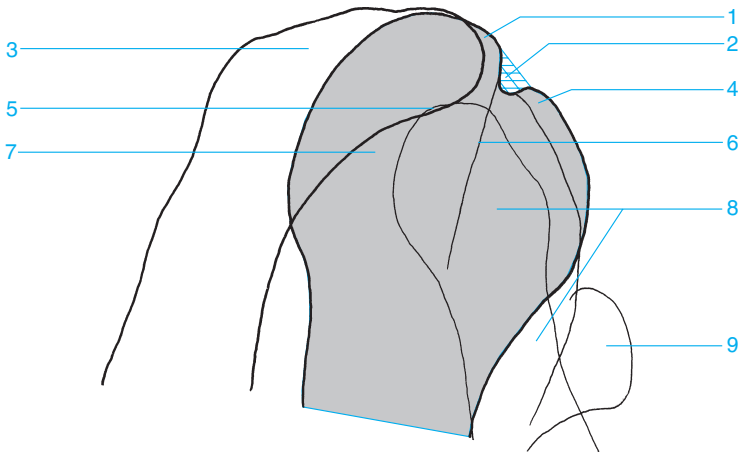
- 7 Humeral head
- 8 Clavicle
- 9 Suprascapular notch
- 10 Spine of the scapula
- 11 Superior angle of the scapula





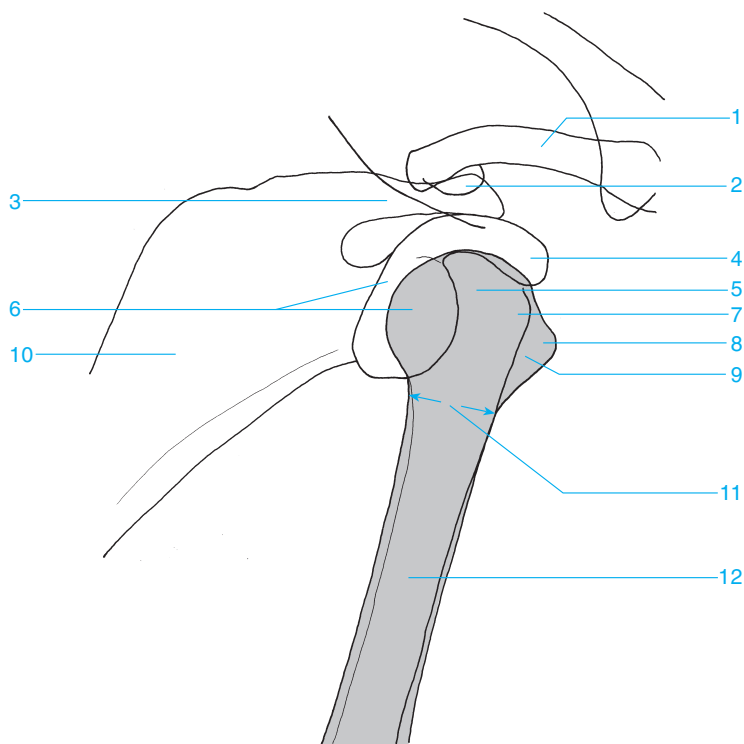
- | | |
|-----------------------------------|----------------------------------|
| 1 Lesser tubercle of the humerus | 8 Acromioclavicular joint |
| 2 Humeral head | 9 Glenohumeral joint |
| 3 Coracoid process | 10 Acromion |
| 4 Clavicle | 11 Superior angle of the scapula |
| 5 Bicipital groove | 12 Neck of the scapula |
| 6 Greater tubercle of the humerus | 13 Humerus |
| 7 Glenoid fossa | 14 Scapula |





- | | |
|-----------------------------------|---------------------------------|
| 1 Greater tubercle of the humerus | 6 Crest of the greater tubercle |
| 2 Bicipital groove | 7 Humeral head |
| 3 Acromion | 8 Clavicle |
| 4 Lesser tubercle of the humerus | 9 Coracoid process |
| 5 Acromioclavicular joint | |

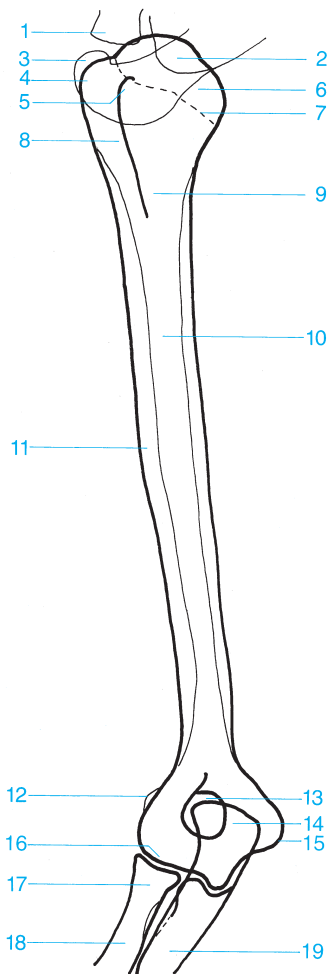




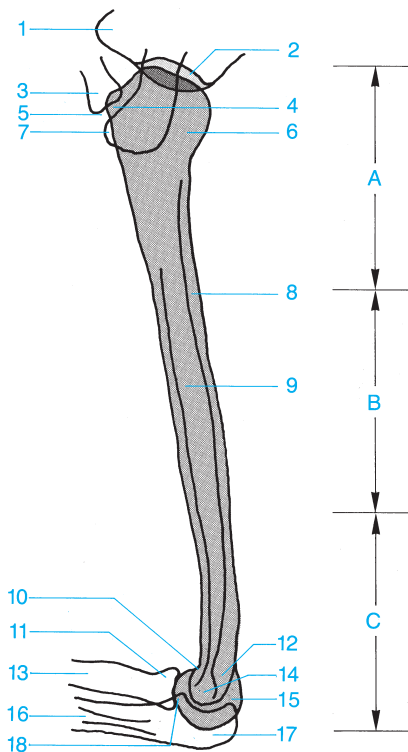
- | | |
|---------------------------|-----------------------------------|
| 1 Clavicle | 7 Greater tubercle of the humerus |
| 2 Acromioclavicular joint | 8 Lesser tubercle of the humerus |
| 3 Acromion | 9 Bicipital groove |
| 4 Coracoid process | 10 Scapula |
| 5 Humeral head | 11 Surgical neck |
| 6 Glenoid fossa | 12 Humerus |



- 1 Clavicle
- 2 Lateral process (neck) of the scapula
- 3 Acromion
- 4 Greater tubercle of the humerus
- 5 Lesser tubercle of the humerus
- 6 Humeral head
- 7 Anatomical neck
- 8 Bicipital groove
- 9 Surgical neck
- 10 Humerus
- 11 Deltoid tuberosity
- 12 Lateral epicondyle
- 13 Olecranon fossa
- 14 Olecranon
- 15 Medial epicondyle
- 16 Trochlea
- 17 Radial head
- 18 Radius
- 19 Ulna

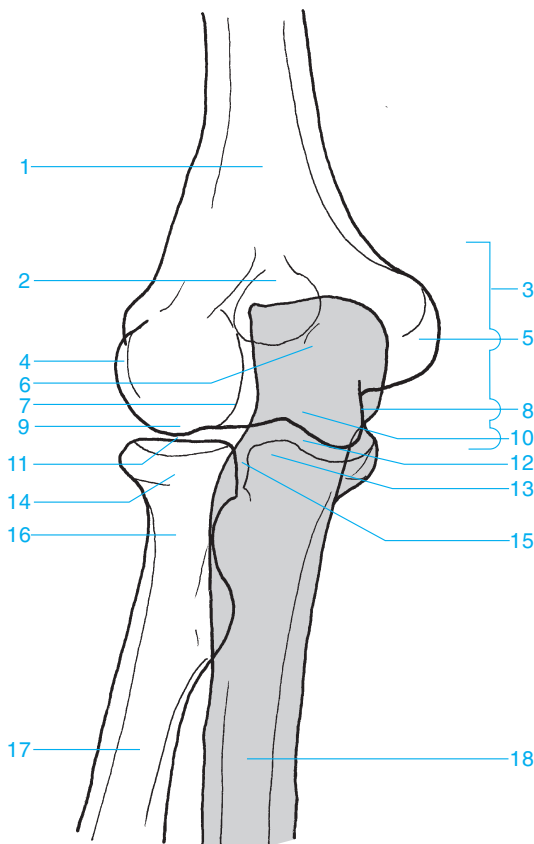






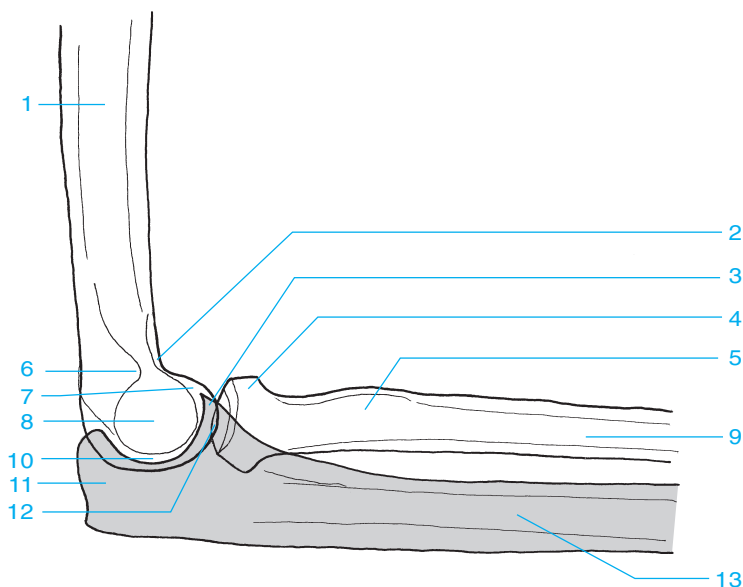
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|---|----------------------------|
| A Proximal third of the humerus | 9 Humeral shaft |
| B Medial third of the humerus | 10 Coronoid fossa |
| C Distal third of the humerus | 11 Radial head |
| 1 Coracoid process | 12 Olecranon fossa |
| 2 Glenoid fossa | 13 Radius |
| 3 Clavicle | 14 Trochlea |
| 4 Lesser tubercle of the humerus | 15 Capitellum |
| 5 Acromioclavicular joint | 16 Ulna |
| 6 Humeral head | 17 Olecranon |
| 7 Acromion | 18 Coronoid process |
| 8 Cortex | |





- | | |
|--|------------------------------|
| 1 Humerus | 10 Trochlea |
| 2 Olecranon fossa | 11 Humero-radial joint |
| 3 Medial epicondyle of the humerus | 12 Humero-ulnar joint |
| 4 Lateral epicondyle of the humerus | 13 Coronoid process |
| 5 Apex of the medial epicondyle of the humerus | 14 Radial head |
| 6 Olecranon | 15 Proximal radioulnar joint |
| 7 Lateral margin of the trochlea | 16 Radial neck |
| 8 Medial margin of the trochlea | 17 Radius |
| 9 Capitellum | 18 Ulna |

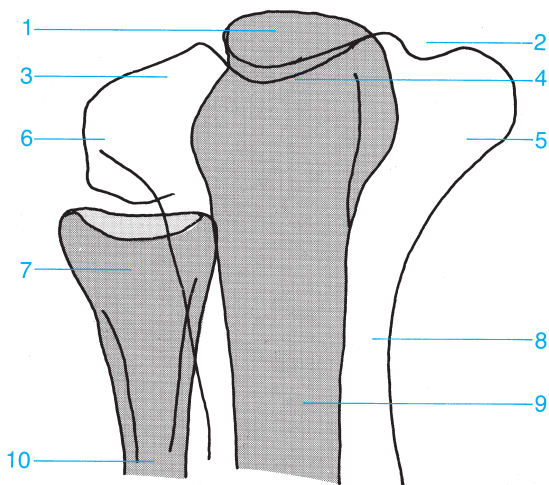




- 1 Humerus
- 2 Coronoid fossa
- 3 Coronoid process
- 4 Radial head
- 5 Radial tuberosity
- 6 Olecranon fossa
- 7 Medial epicondyle

- 8 Lateral epicondyle
- 9 Radius
- 10 Humeroulnar joint
- 11 Olecranon
- 12 Humeroradial joint
- 13 Ulna

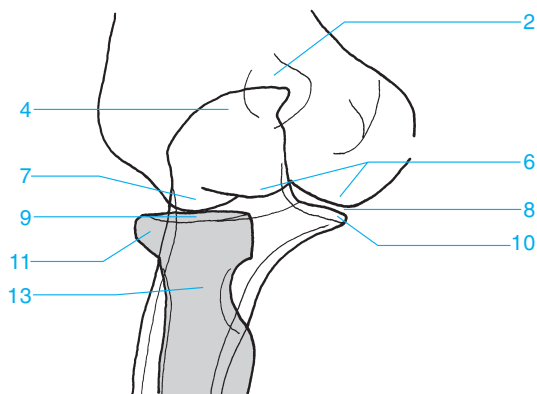
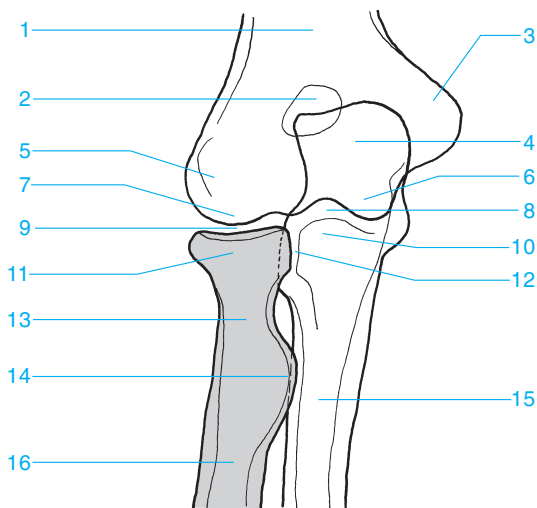




- 1 Olecranon
- 2 Cubital tunnel
- 3 Capitellum
- 4 Trochlea
- 5 Medial epicondyle

- 6 Lateral epicondyle
- 7 Radial head
- 8 Humerus
- 9 Ulna
- 10 Radius

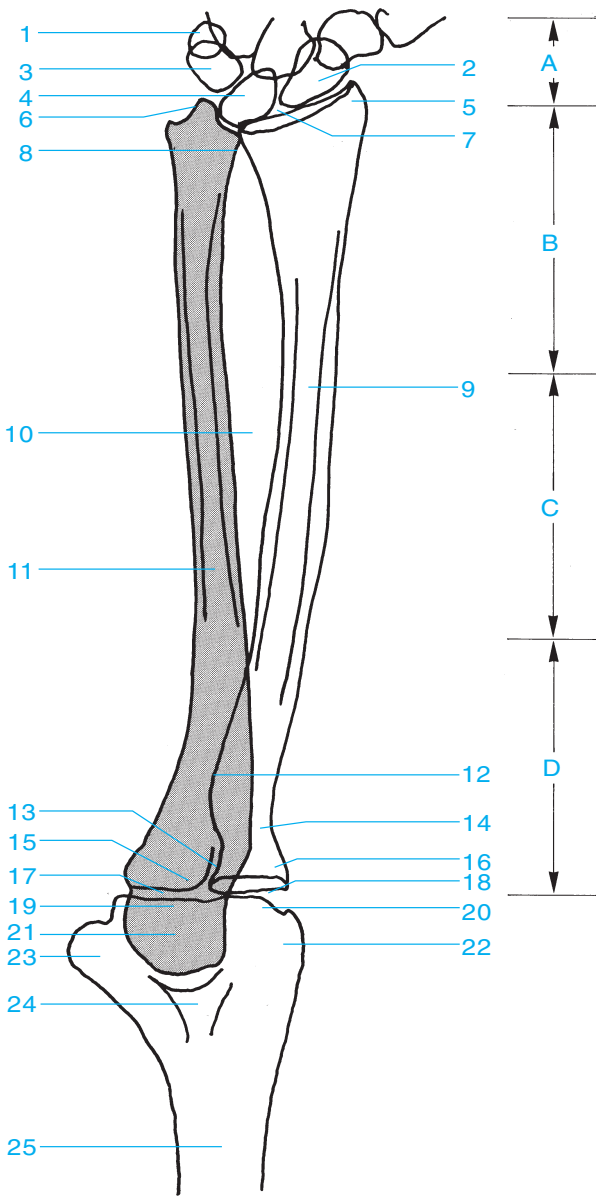




- | | |
|----------------------|------------------------------|
| 1 Humerus | 9 Humero-radial joint |
| 2 Olecranon fossa | 10 Coronoid process |
| 3 Medial epicondyle | 11 Radial head |
| 4 Olecranon | 12 Proximal radioulnar joint |
| 5 Lateral epicondyle | 13 Radial neck |
| 6 Trochlea | 14 Radial tuberosity |
| 7 Capitulum | 15 Ulna |
| 8 Humero-ulnar joint | 16 Radius |

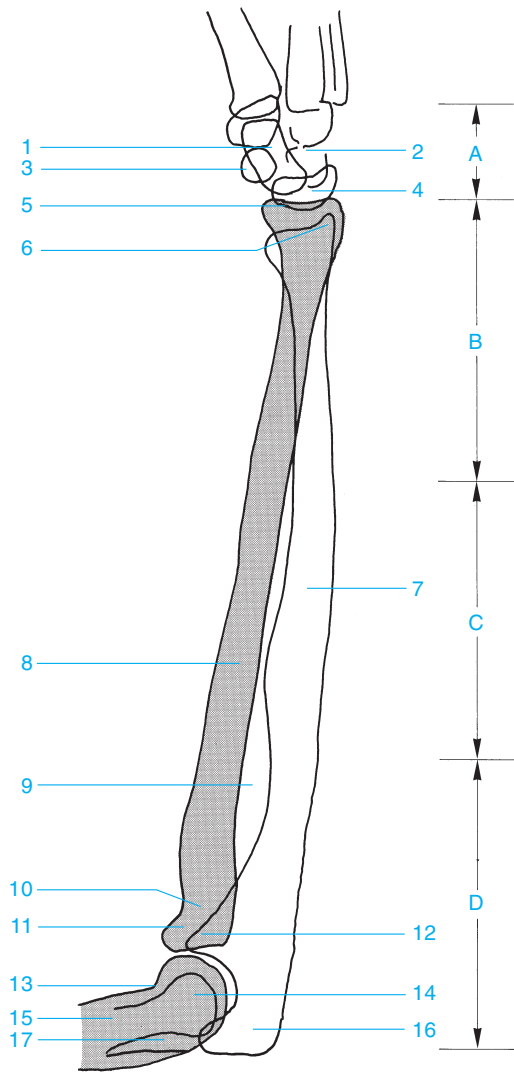


- A** Carpal bones
- B** Distal third of the forearm
- C** Middle third of the forearm
- D** Proximal third of the forearm
- 1** Pisiform bone
- 2** Scaphoid
- 3** Triquetrum
- 4** Lunate bone
- 1-4** Proximal carpal row
- 5** Radial styloid
- 6** Ulnar styloid
- 7** Radiocarpal joint
- 8** Distal radioulnar joint
- 9** Radius
- 10** Interosseous membrane
- 11** Ulna
- 12** Radial tuberosity
- 13** Proximal radioulnar joint
- 14** Radial neck
- 15** Coronoid process
- 16** Radial head
- 17** Humeroulnar joint
- 18** Humeroradial joint
- 19** Trochlea
- 20** Capitellum
- 21** Olecranon
- 22** Lateral epicondyle of the humerus
- 23** Medial epicondyle of the humerus
- 24** Olecranon fossa
- 25** Humerus

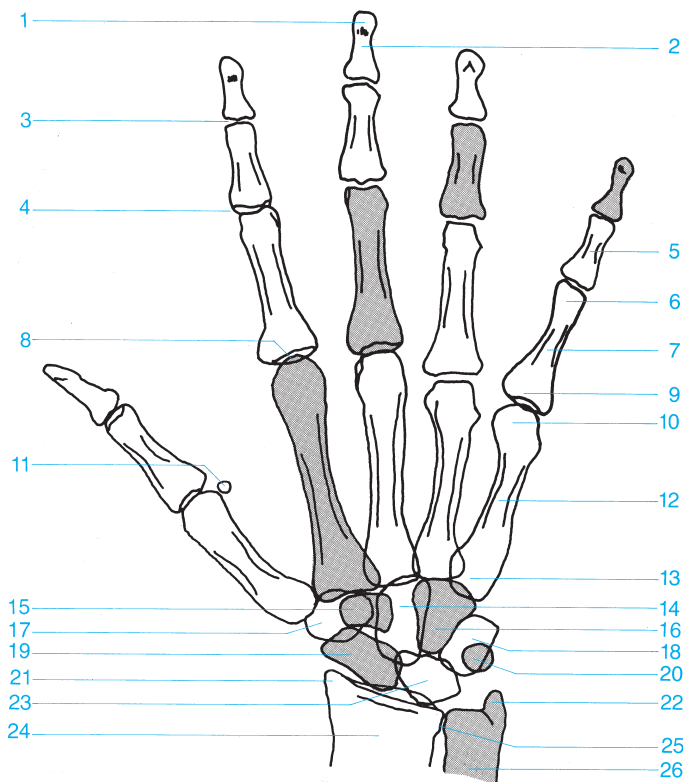




- A** Carpal bones
- B** Distal third of the forearm
- C** Middle third of the forearm
- D** Proximal third of the forearm
- 1** Triquetrum
- 2** Scapoid
- 3** Pisiform bone
- 4** Lunate bone
- 1–4** Proximal carpal row
- 5** Radiocarpal joint
- 6** Ulnar styloid
- 7** Ulna
- 8** Radius
- 9** Interosseous membrane
- 10** Radial neck
- 11** Radial head
- 12** Coronoid process
- 13** Coronoid fossa
- 14** Trochlea of the humerus
- 15** Humerus
- 16** Olecranon
- 17** Olecranon fossa

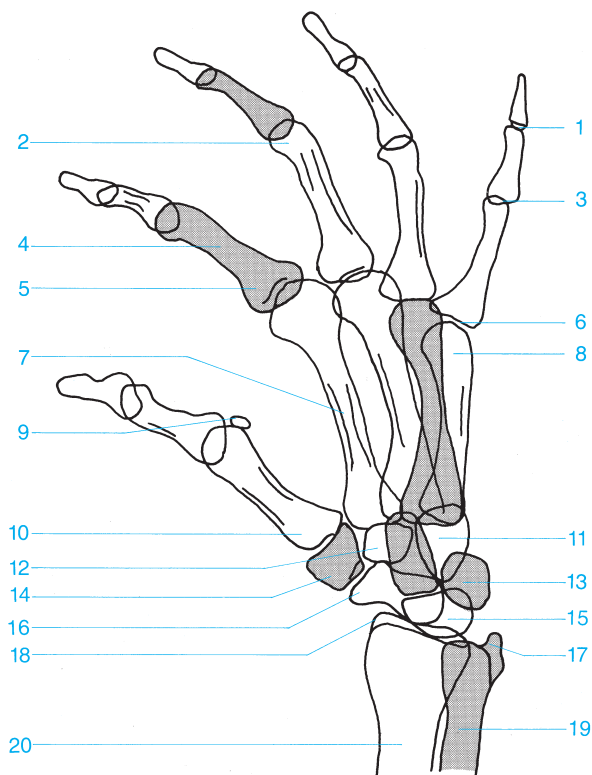






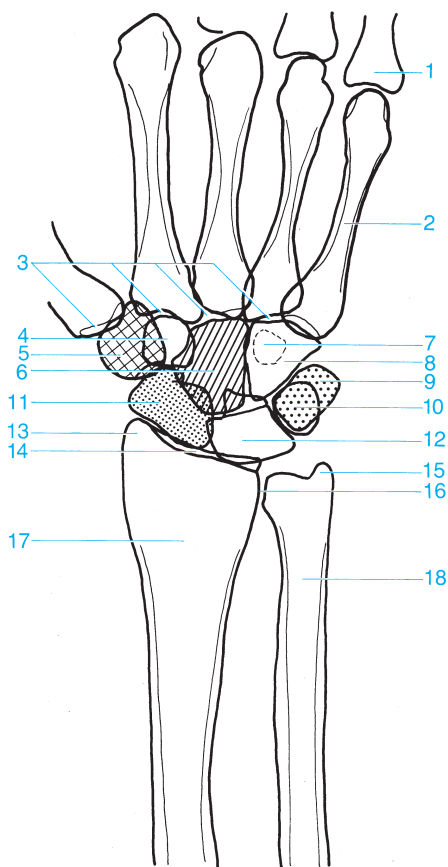
- | | |
|----------------------------------|----------------------------|
| 1 Distal phalanx (tuft) | 14 Capitate |
| 2 Distal phalanx | 15 Trapezoid |
| 3 Distal interphalangeal joint | 16 Hamate |
| 4 Proximal interphalangeal joint | 17 Trapezium |
| 5 Middle phalanx | 18 Triquetrum |
| 6 Head of the proximal phalanx | 19 Scaphoid |
| 7 Proximal phalanx | 20 Pisiform |
| 8 Metacarpophalangeal joint | 21 Radial styloid |
| 9 Base of the proximal phalanx | 22 Ulnar styloid |
| 10 Metacarpal head | 23 Lunate |
| 11 Sesamoid | 24 Distal radius |
| 12 Metacarpal | 25 Distal radioulnar joint |
| 13 Metacarpal base | 26 Distal ulna |





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|---|-------------------------------|
| 1 Distal interphalangeal joint | 11 Capitate and hamate |
| 2 Head of the proximal phalanx | 12 Trapezoid |
| 3 Proximal interphalangeal joint | 13 Triquetrum |
| 4 Proximal phalanx | 14 Trapezium |
| 5 Base of the proximal phalanx | 15 Lunate |
| 6 Metacarpophalangeal joint | 16 Scaphoid |
| 7 Metacarpal | 17 Ulnar styloid |
| 8 Metacarpal head | 18 Radial styloid |
| 9 Sesamoid | 19 Distal ulna |
| 10 Metacarpal base | 20 Distal radius |

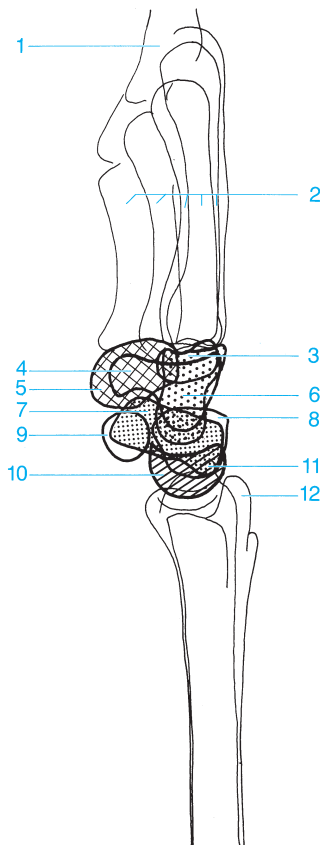




- 1 Proximal phalanx
- 2 Fifth metacarpal
- 3 Carpometacarpal joint
- 4 Trapezoid
- 5 Trapezium
- 6 Capitate
- 7 Hook of the Hamate
- 8 Hamate
- 9 Triquetrum

- 10 Pisiform
- 11 Scaphoid
- 12 Lunate
- 13 Radial styloid
- 14 Radiocarpal joint
- 15 Ulnar styloid
- 16 Radioulnar joint
- 17 Radius
- 18 Ulna

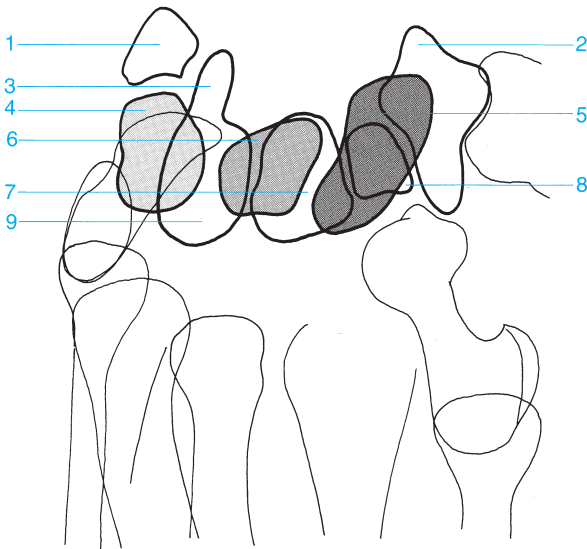




- 1 Proximal phalanx
- 2 Metacarpals
- 3 Trapezoid
- 4 Hook of the Hamate
- 5 Trapezium
- 6 Capitate

- 7 Scaphoid
- 8 Triquetrum
- 9 Pisiform
- 10 Lunate
- 11 Radial styloid
- 12 Ulnar styloid

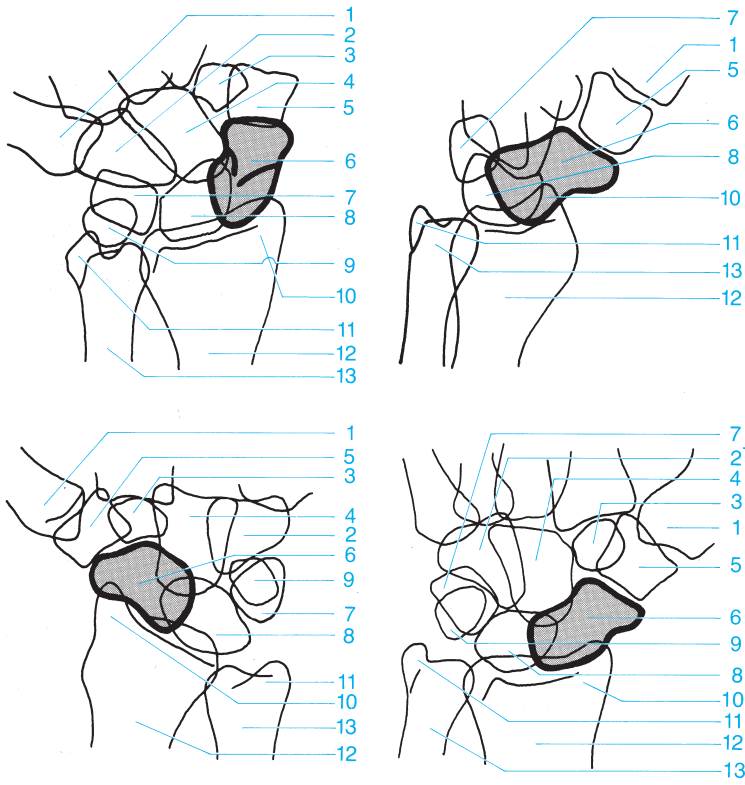




- 1 Pisiform
- 2 Trapezium
- 3 Hook of the hamate
- 4 Triquetrum
- 5 Scaphoid

- 6 Lunate
- 7 Capitate
- 8 Trapezoid
- 9 Hamate

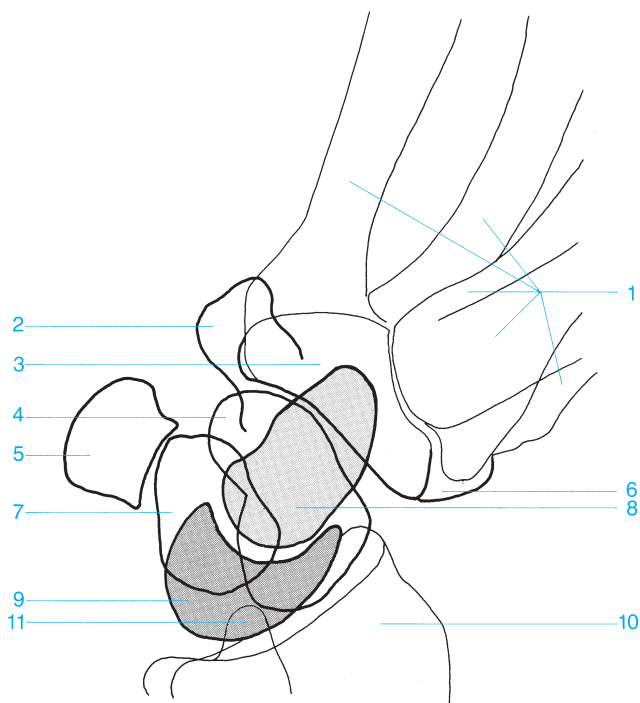




- 1 Metacarpal
- 2 Hamate
- 3 Trapezoid
- 4 Capitate
- 5 Trapezium
- 6 Scaphoid
- 7 Triquetrum

- 8 Lunate
- 9 Pisiform
- 10 Radial styloid
- 11 Ulnar styloid
- 12 Radius
- 13 Ulna

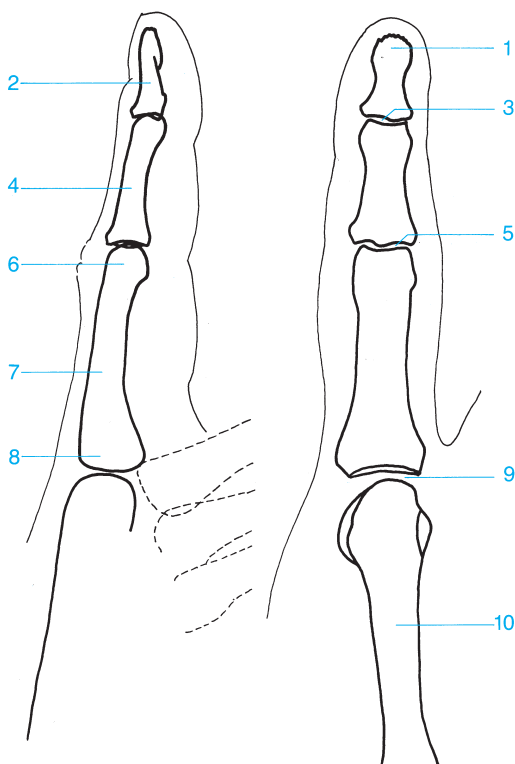




- 1 Metacarpals
- 2 Hamate
- 3 Trapezoid
- 4 Scaphoid
- 5 Pisiform
- 6 Trapezium

- 7 Triquetrum
- 8 Capitate
- 9 Lunate
- 10 Radius
- 11 Ulnar styloid

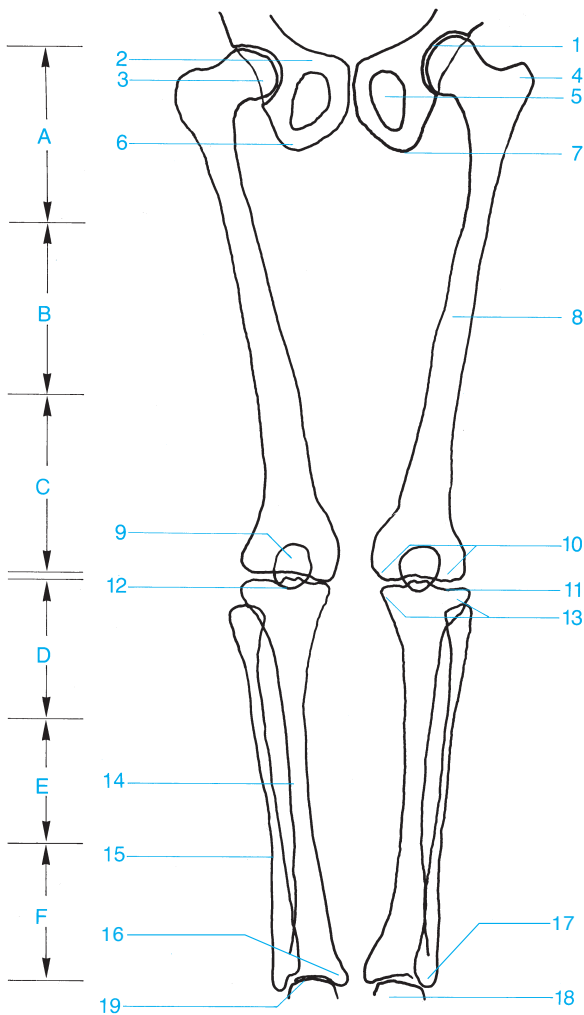




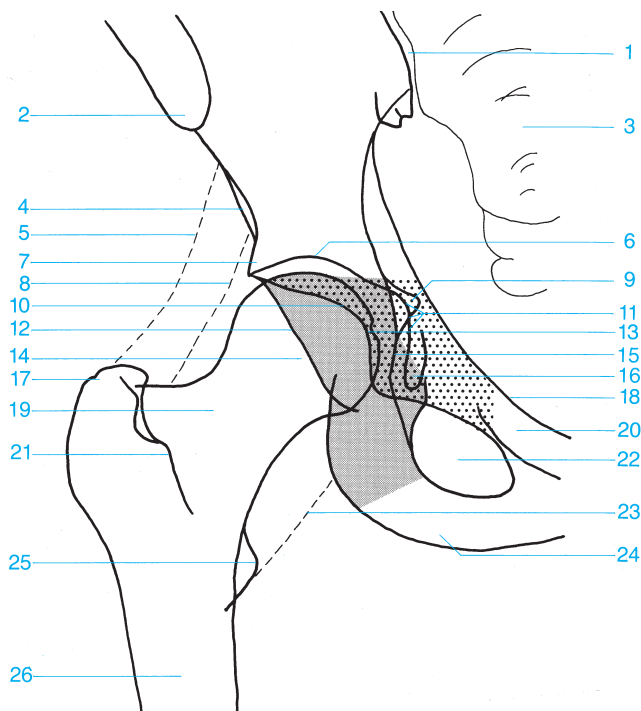
- | | |
|----------------------------------|--------------------------------|
| 1 Distal phalanx (tuft) | 6 Head of the proximal phalanx |
| 2 Distal phalanx | 7 Proximal phalanx |
| 3 Distal interphalangeal joint | 8 Base of the proximal phalanx |
| 4 Middle phalanx | 9 Metacarpophalangeal joint |
| 5 Proximal interphalangeal joint | 10 Metacarpal |



- A** Proximal third of the femur
- B** Middle third of the femur
- C** Distal third of the femur
- D** Proximal third of the lower leg
- E** Medial third of the lower leg
- F** Distal third of the lower leg
- 1** Joint space of the hip
- 2** Pubic bone
- 3** Femoral head
- 4** Greater trochanter
- 5** Obturator foramen
- 6** Ischium
- 7** Ischial tuberosity
- 8** Femur
- 9** Patella
- 10** Medial and lateral femoral condyles
- 11** Joint space of the knee
- 12** Intercondylar eminence
- 13** Medial and lateral tibial condyles
- 14** Tibia
- 15** Fibula
- 16** Medial malleolus
- 17** Lateral malleolus
- 18** Trochlea of the talus
- 19** Ankle

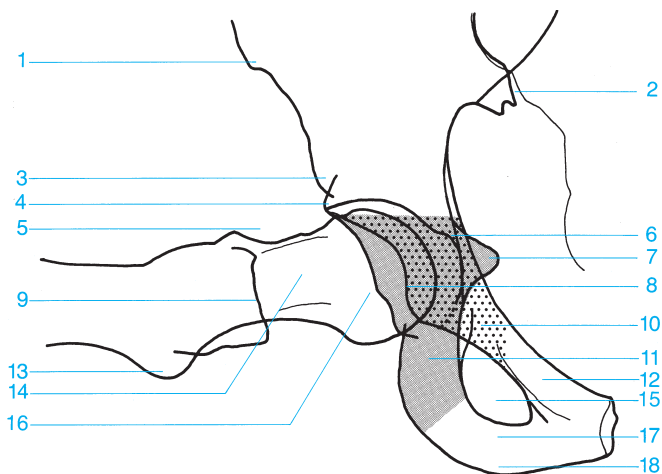






- | | |
|--|---|
| 1 Sacroiliac joint | 15 Ilioischial line |
| 2 Anterior superior iliac spine | 16 Köhler's teardrop figure |
| 3 Sacrum | 17 Greater trochanter |
| 4 Anterior inferior iliac spine | 18 Terminal line |
| 5 Intergluteal fat stripe | 19 Femoral neck |
| 6 Roof of the acetabulum | 20 Superior pubic ramus |
| 7 Acetabular convexity (promontory) | 21 Intertrochanteric crest |
| 8 Fat stripe medial to the gluteus minimus | 22 Obturator foramen |
| 9 Spine of the ischium | 23 Fat stripe medial to the iliopsoas |
| 10 Anterior acetabular rim | 24 Ischial tuberosity |
| 11 Floor of the acetabulum | 25 Lesser trochanter |
| 12 Posterior acetabular rim | 26 Femur |
| 13 Fovea of the femoral head | ■ Ischium (posterior column) |
| 14 Femoral head | ▨ Pubic bone, anterior column (anterior column) |



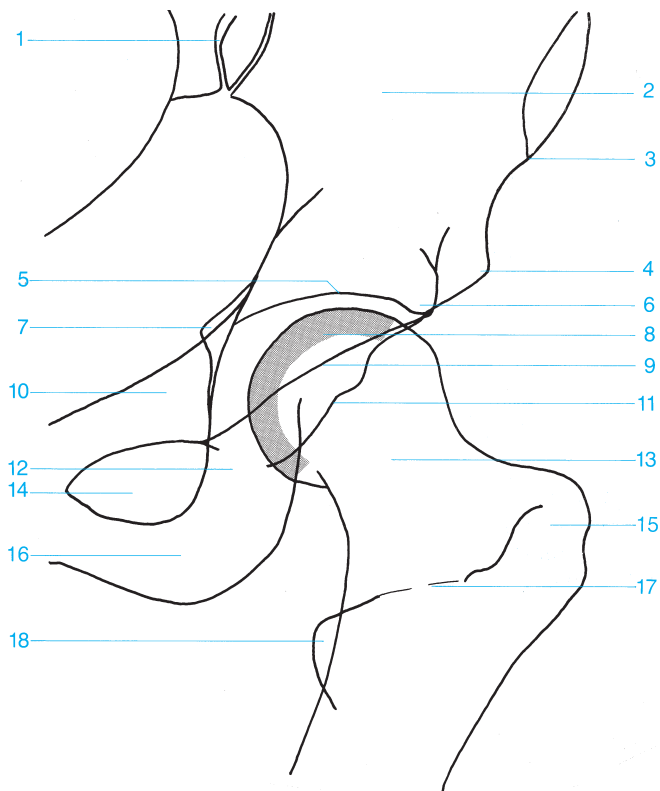


- | | |
|--|--------------------------------|
| 1 Anterior superior iliac spine | 12 Superior pubic ramus |
| 2 Sacroiliac joint | 13 Lesser trochanter |
| 3 Anterior inferior iliac spine | 14 Femoral neck |
| 4 Superior acetabular rim | 15 Obturator foramen |
| 5 Posterior acetabular rim | 16 Femoral head |
| 6 Floor of the acetabulum | 17 Inferior pubic ramus |
| 7 Spine of the ischium | 18 Ischial tuberosity |
| 8 Anterior acetabular rim | |
| 9 Greater trochanter | |
| 10 Pubic bone (anterior column) | |
| 11 Ischium (posterior column) | |

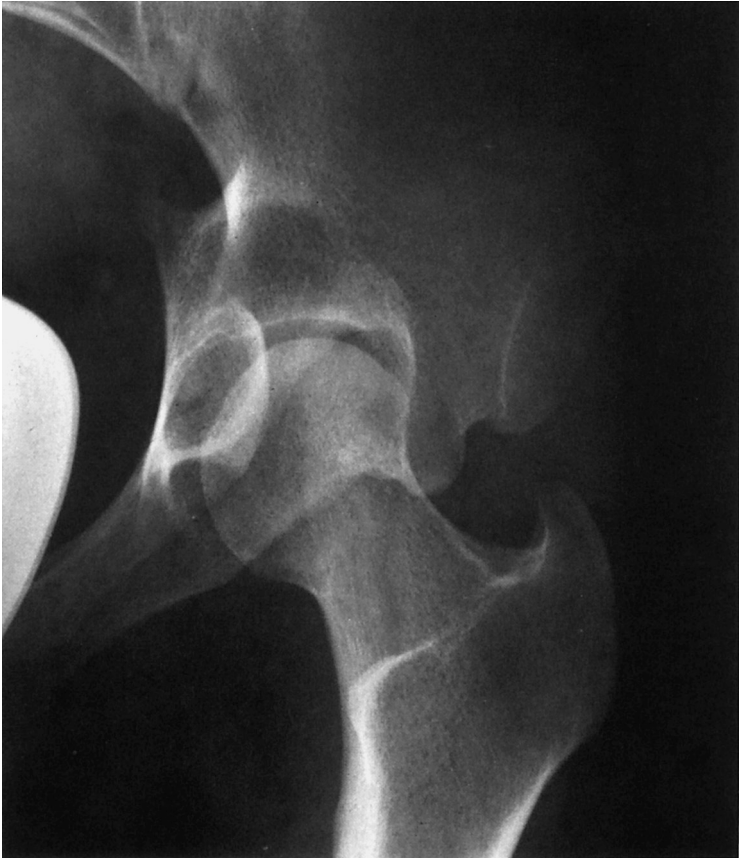
 Pubic bone

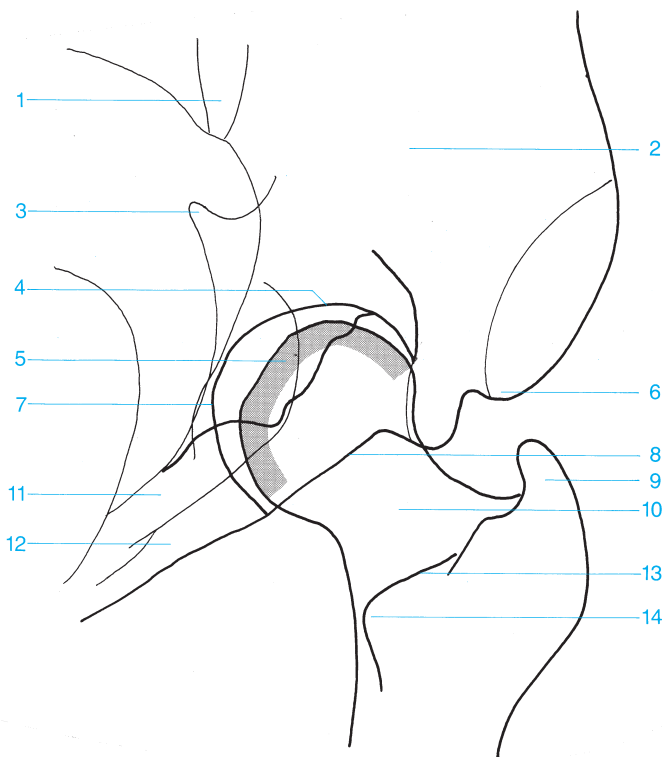
 Ischium



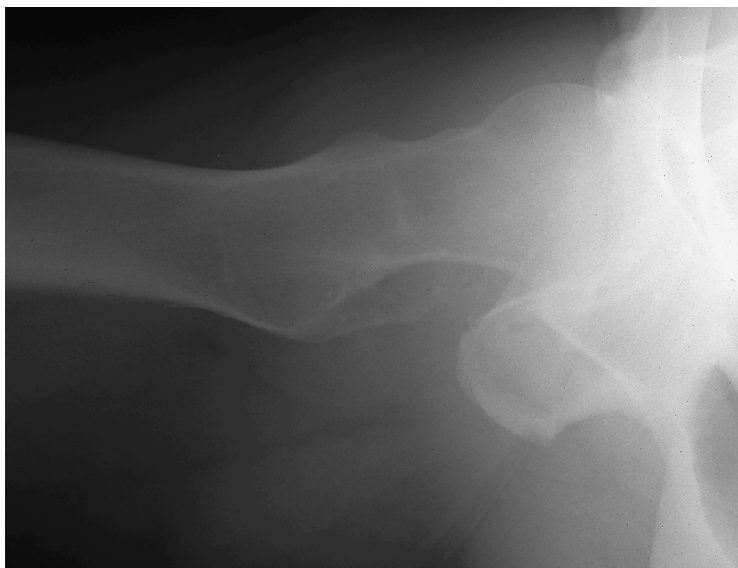


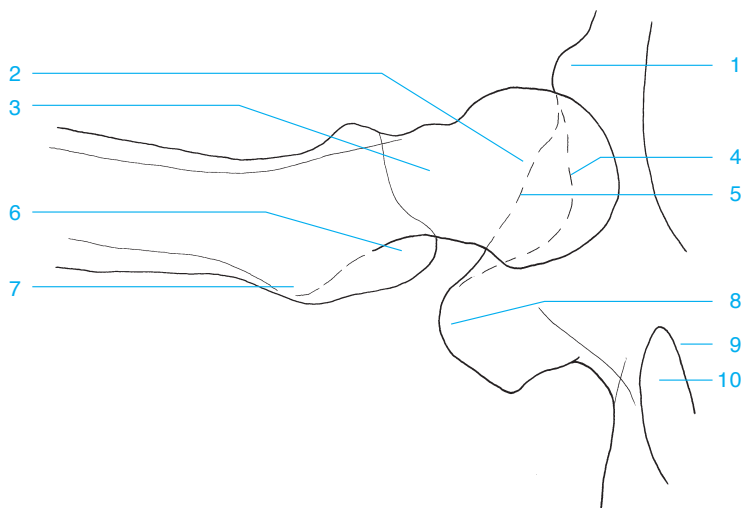
- | | |
|--|---------------------------------|
| 1 Sacroiliac joint | 10 Pubic bone (anterior column) |
| 2 Ilium | 11 Posterior acetabular rim |
| 3 Anterior superior iliac spine | 12 Ischium |
| 4 Anterior inferior iliac spine | 13 Femoral neck |
| 5 Roof of the acetabulum | 14 Obturator foramen |
| 6 Superior acetabular rim | 15 Greater trochanter |
| 7 Spine of the ischium | 16 Ischial tuberosity |
| 8 Anterior articular surface of the femoral head | 17 Intertrochanteric crest |
| 9 Anterior acetabular rim | 18 Lesser trochanter |





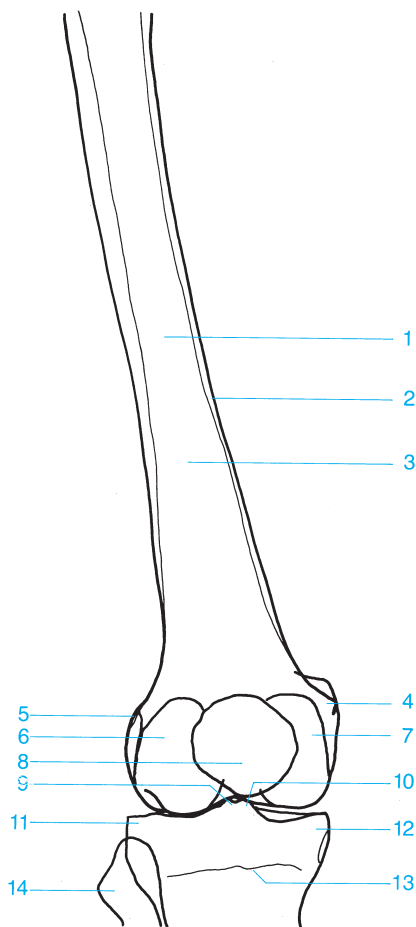
- | | |
|---|----------------------------|
| 1 Sacroiliac joint | 8 Anterior acetabular rim |
| 2 Iliac bone | 9 Greater trochanter |
| 3 Spine of the ischium | 10 Femoral neck |
| 4 Roof of the acetabulum | 11 Ischium |
| 5 Posterior articular surface of the femoral head | 12 Pubic bone |
| 6 Anterior superior iliac spine | 13 Intertrochanteric crest |
| 7 Floor of the acetabulum | 14 Lesser trochanter |





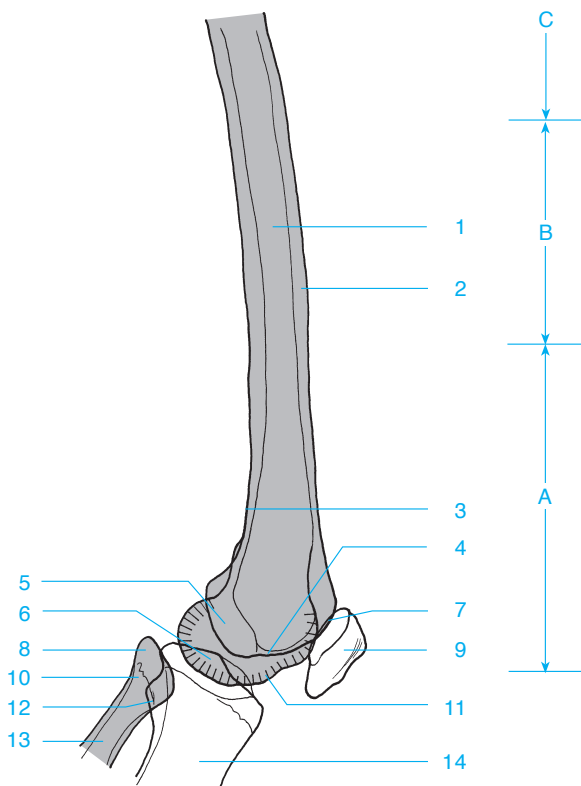
- | | |
|---------------------------------|----------------------|
| 1 Anterior inferior iliac spine | 6 Greater trochanter |
| 2 Femoral head | 7 Lesser trochanter |
| 3 Femoral neck | 8 Ischial tuberosity |
| 4 Anterior acetabular rim | 9 Pubic bone |
| 5 Posterior acetabular rim | 10 Obturator foramen |



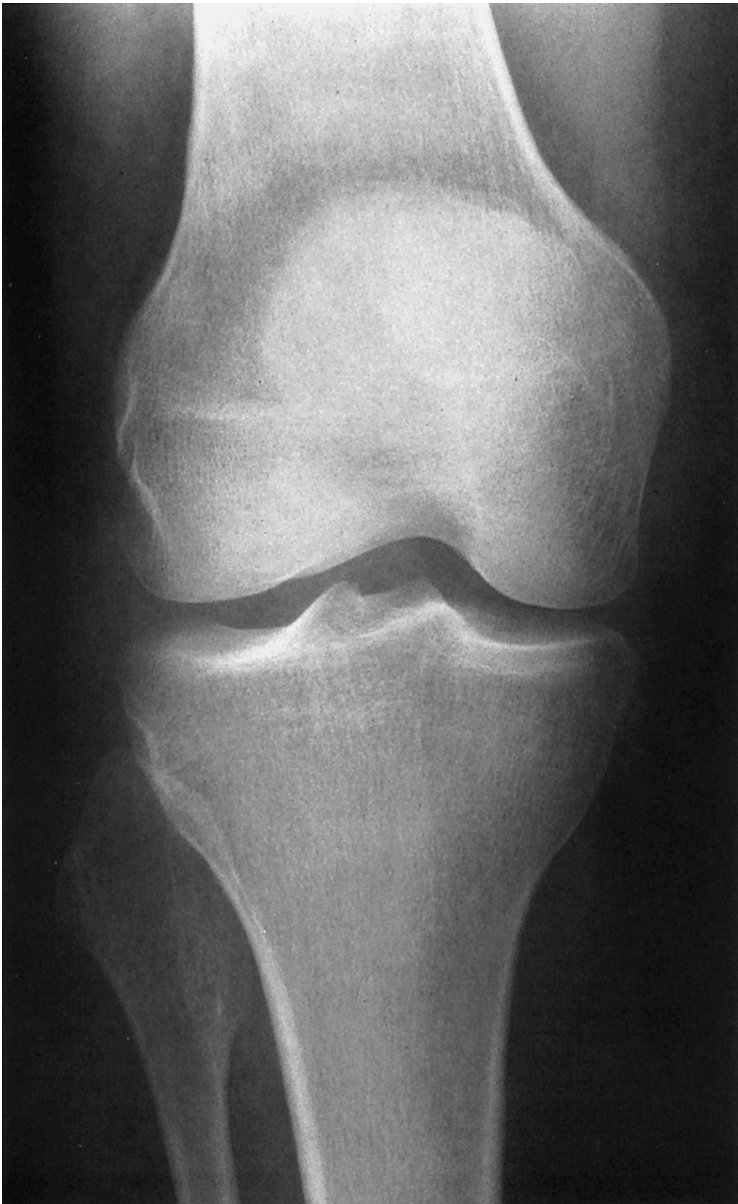


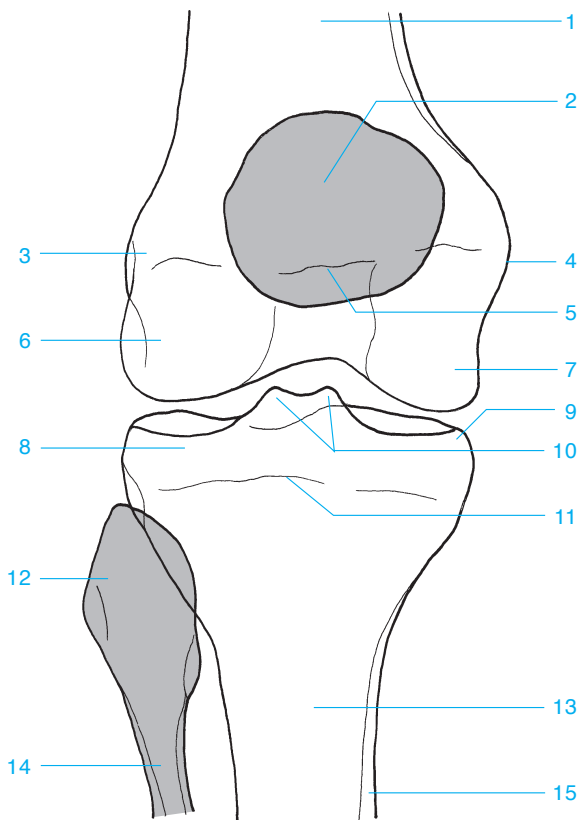
- | | |
|------------------------------|--|
| 1 Femoral shaft | 9 Lateral tubercle of the intercondylar eminence |
| 2 Cortex | 10 Medial tubercle of the intercondylar eminence |
| 3 Medullary canal | 11 Lateral tibial condyle |
| 4 Medial femoral epicondyle | 12 Medial tibial condyle |
| 5 Lateral femoral epicondyle | 13 Growth plate |
| 6 Lateral femoral condyle | 14 Fibular head |
| 7 Medial femoral condyle | |
| 8 Patella | |





- | | |
|--------------------------------------|---|
| A Distal third of the femur | 11 Medial femoral condyle |
| B Middle third of the femur | a Opposite the lateral tibial condyle, which articulates with the fibula. |
| C Proximal third of the femur | b Regardless of the lateral position, the corresponding lateral articular surfaces of the patella and femur are longer proximal to distal than the corresponding medial articular surfaces. |
| 1 Femur | 12 Tibiofibular joint |
| 2 Cortex | 13 Fibula |
| 3 Popliteal fossa | 14 Tibia |
| 4 Lateral femoral condyle | |
| 5 Intercondylar fossa | |
| 6 Intercondylar eminence | |
| 7 Patellofemoral joint | |
| 8 Apex of the fibular head | |
| 9 Patella | |
| 10 Fibular head | |

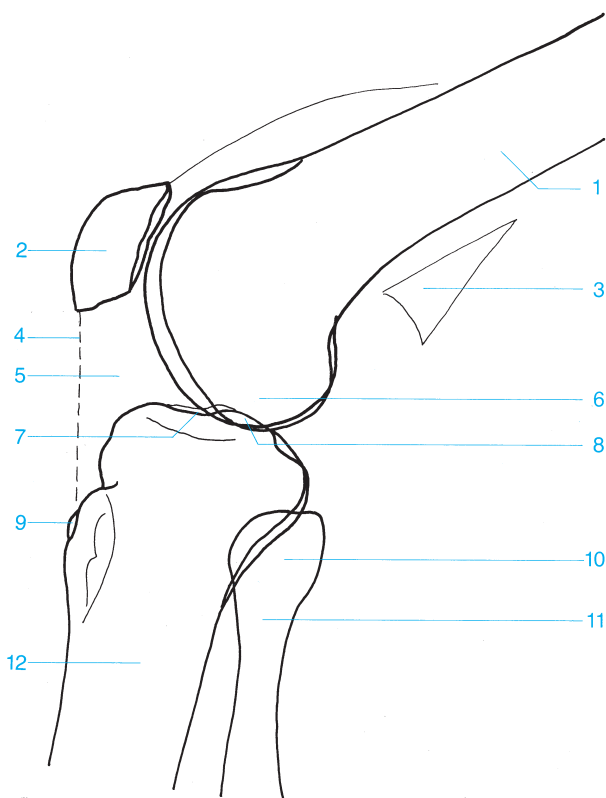




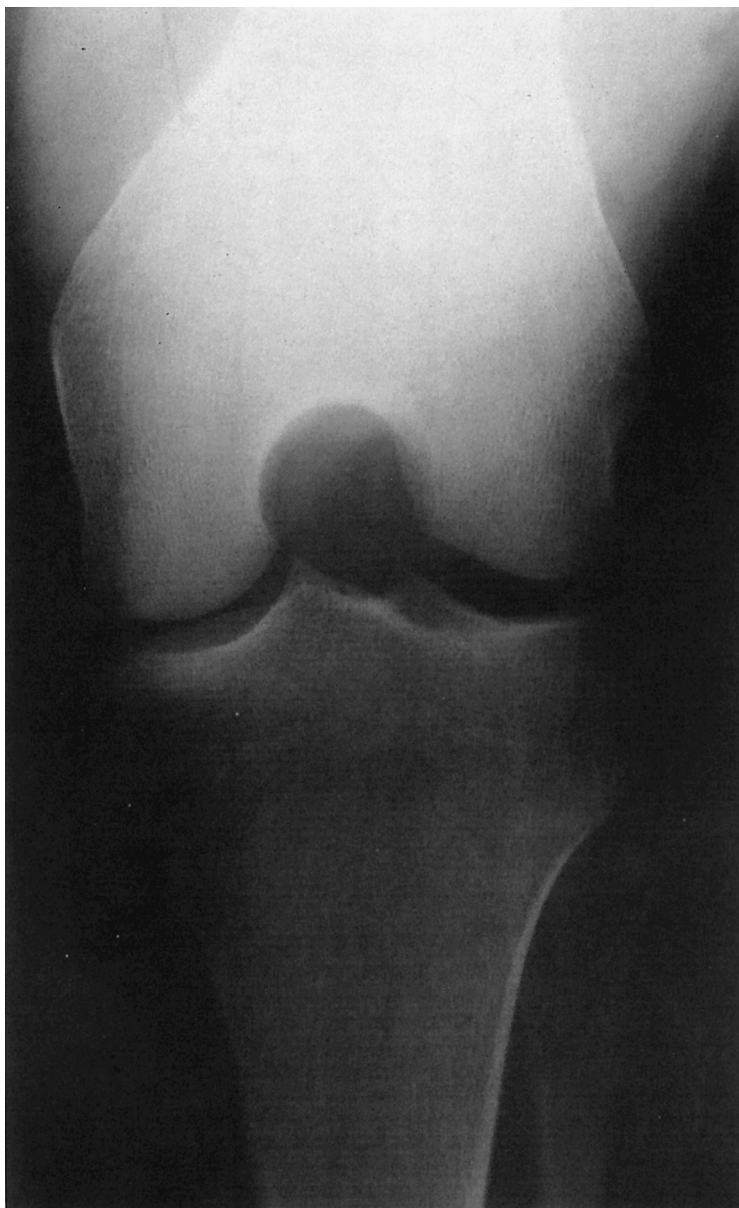
- 1 Femur
- 2 Patella
- 3 Lateral femoral epicondyle
- 4 Medial femoral epicondyle
- 5 Growth plate
- 6 Lateral femoral condyle
- 7 Medial femoral condyle
- 8 Lateral tibial condyle

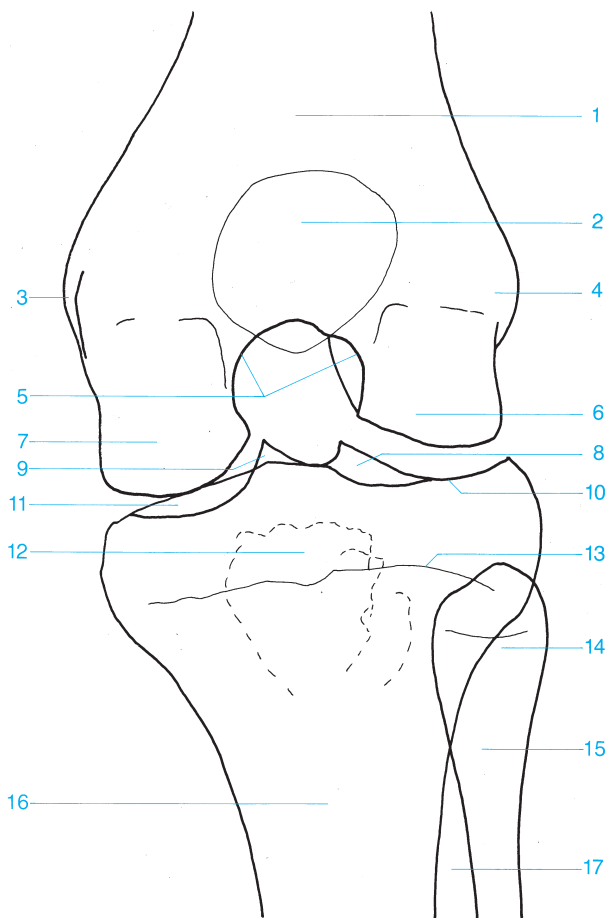
- 9 Medial tibial condyle
- 10 Medial and lateral tubercles of the intercondylar eminence
- 11 Epiphyseal plate
- 12 Fibular head
- 13 Tibia
- 14 Fibula
- 15 Cortex



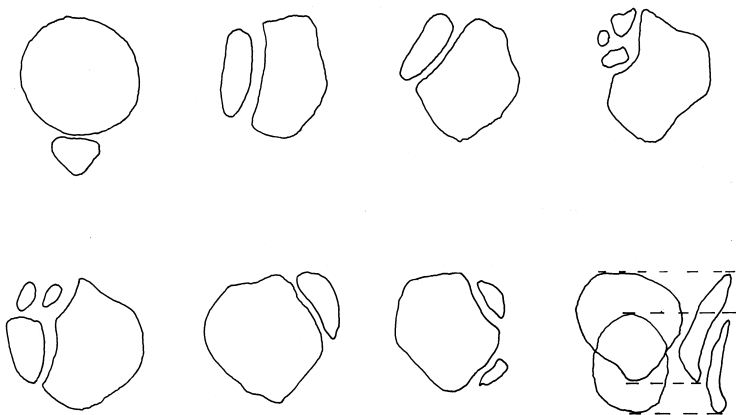


- | | |
|---------------------------|--------------------------|
| 1 Femur | 7 Tibial plateau |
| 2 Patella | 8 Intercondylar eminence |
| 3 Posterior fat | 9 Tibial tuberosity |
| 4 Patellar ligament | 10 Fibular head |
| 5 Infrapatellar fat pad | 11 Fibular neck |
| 6 Lateral femoral condyle | 12 Tibia |

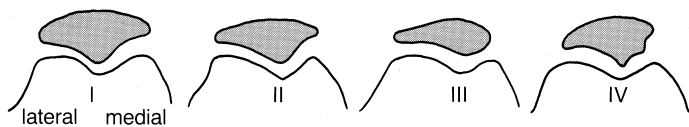




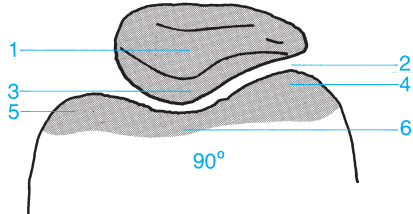
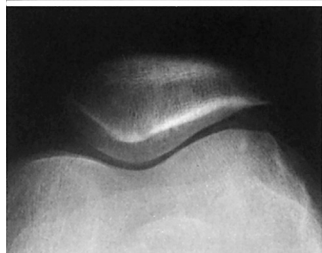
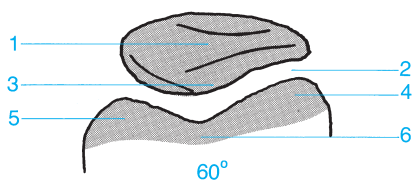
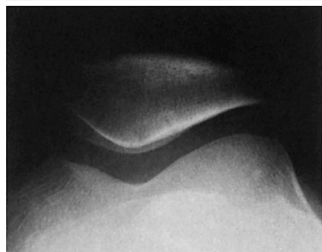
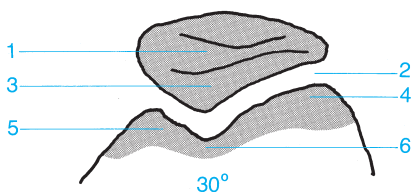
- | | |
|--|---|
| 1 Femur | 9 Medial tubercle of the intercondylar eminence |
| 2 Patella | 10 Lateral tibial plateau |
| 3 Medial femoral epicondyle | 11 Medial tibial plateau |
| 4 Lateral femoral epicondyle | 12 Tibial tuberosity |
| 5 Intercondylar fossa | 13 Growth plate |
| 6 Lateral femoral condyle | 14 Fibular head |
| 7 Medial femoral condyle | 15 Fibular neck |
| 8 Lateral tubercle of the intercondylar eminence | 16 Tibia |
| | 17 Interosseous membrane |



Most common forms of multipartite patella (as described by Schaer).



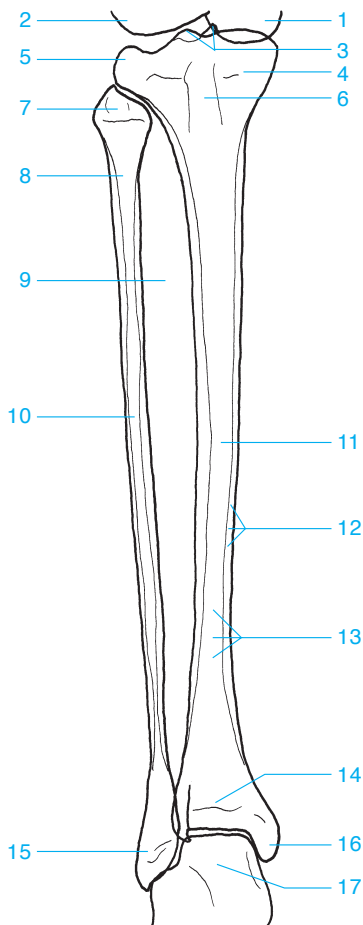
Wiberg's classification of patellar shapes (right knee)



- 1 Patella
- 2 Patellofemoral joint
- 3 Articular surface

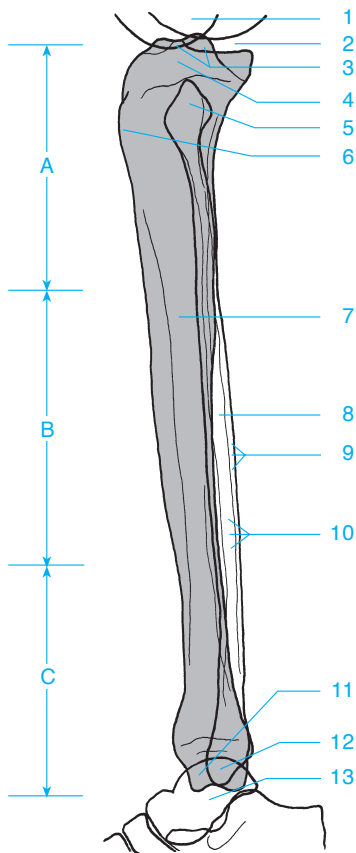
- 4 Lateral femoral condyle (generally larger)
- 5 Medial femoral condyle
- 6 Intercondylar fossa





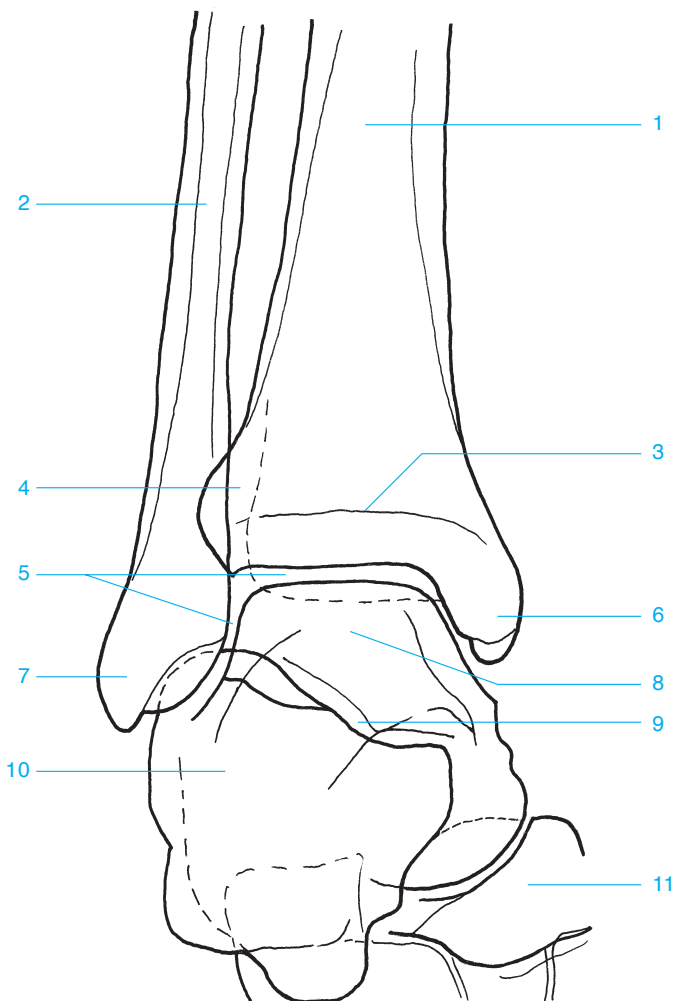
- | | |
|--|-------------------------|
| 1 Medial femoral condyle | 9 Interosseous membrane |
| 2 Lateral femoral condyle | 10 Fibula |
| 3 Medial and lateral tubercles of the intercondylar eminence | 11 Tibia |
| 4 Medial tibial condyle | 12 Cortex |
| 5 Lateral tibial condyle | 13 Medullary canal |
| 6 Tibial tuberosity | 14 Growth plate |
| 7 Fibular head | 15 Lateral malleolus |
| 8 Fibular neck | 16 Medial malleolus |
| | 17 Talus |





- | | |
|--|--|
| A Proximal third of the lower leg | 6 Proximal tibial apophysis (in children) |
| B Middle third of the lower leg | 7 Tibia |
| C Distal third of the lower leg | 8 Fibula |
| 1 Medial and lateral femoral condyles | 9 Cortex |
| 2 Knee | 10 Medullary canal |
| 3 Intercondylar eminence | 11 Medial malleus |
| 4 Medial and lateral tibial condyles | 12 Lateral malleus |
| 5 Fibular head | 13 Talus |

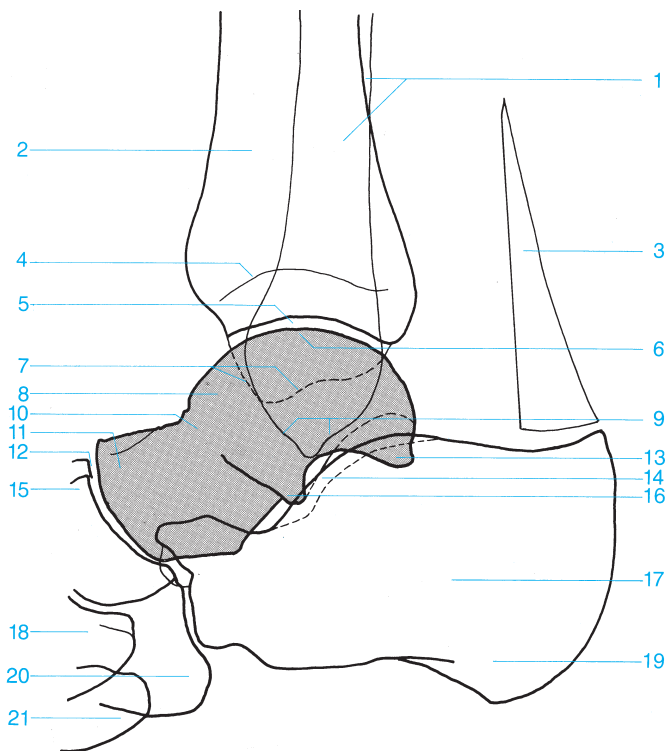




- 1 Tibia
- 2 Fibula
- 3 Growth plate
- 4 Fibular notch
- 5 Ankle
- 6 Medial malleolus

- 7 Lateral malleolus
- 8 Trochlea of the talus
- 9 Subtalar joint
- 10 Calcaneus
- 11 Navicular

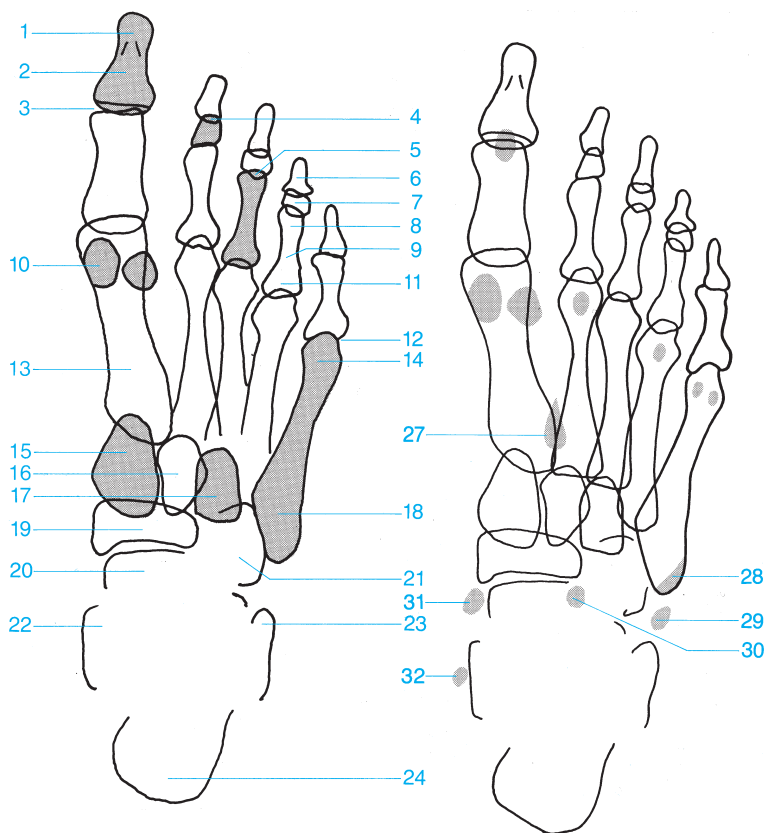




- | | |
|-------------------------|--|
| 1 Fibula | 12 Talonavicular joint |
| 2 Tibia | 13 Posterior process of the talus |
| 3 Achilles tendon | 14 Sinus tarsi |
| 4 Growth plate | 15 Navicular |
| 5 Ankle | 16 Lateral process of the talus |
| 6 Trochlea of the talus | 17 Calcaneus |
| 7 Medial malleolus | 18 Medial cuneiform |
| 8 Talus | 19 Posterior tuberosity of the calcaneus |
| 9 Lateral malleolus | 20 Cuboid |
| 10 Neck of the talus | 21 Base of the fifth metatarsal |
| 11 Head of the talus | |

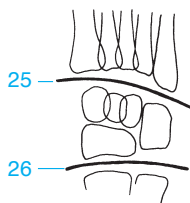


- 1 Distal phalanx (tuft)
- 2 Distal phalanx of the great toe
- 3 Distal interphalangeal joint of the great toe
- 4 Distal interphalangeal joint
- 5 Proximal interphalangeal joint
- 6 Distal phalanx
- 7 Middle phalanx
- 8 Head of the proximal phalanx
- 9 Proximal phalanx
- 10 Sesamoid
- 11 Base of the phalanx
- 12 Metatarsophalangeal joint
- 13 Metatarsal
- 14 Metatarsal head
- 15 Medial cuneiform
- 16 Middle cuneiform
- 17 Lateral cuneiform
- 18 Base of the fifth metatarsal
- 19 Navicular
- 20 Head of the talus
- 21 Cuboid
- 22 Medial malleolus
- 23 Lateral malleolus
- 24 Calcaneus
- 25 Tarsometatarsal joints (Lisfranc's joints)
- 26 Transverse tarsal joint (Chopart's joint)

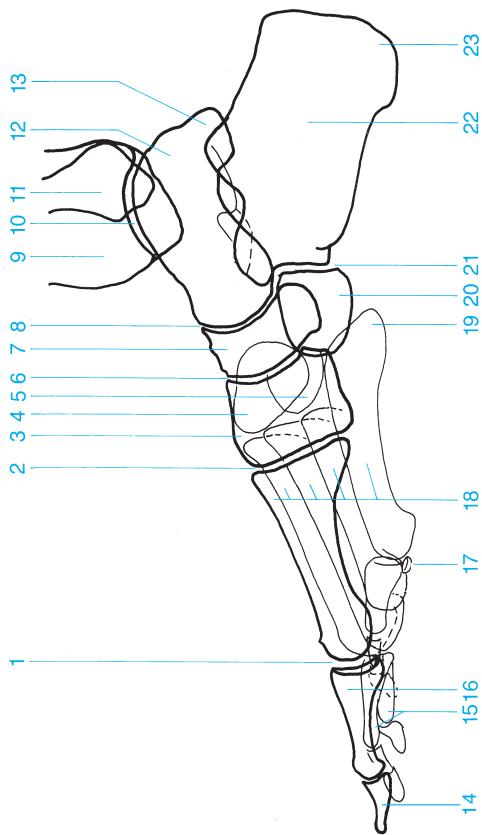


Common sesamoids and accessory bones in the foot.

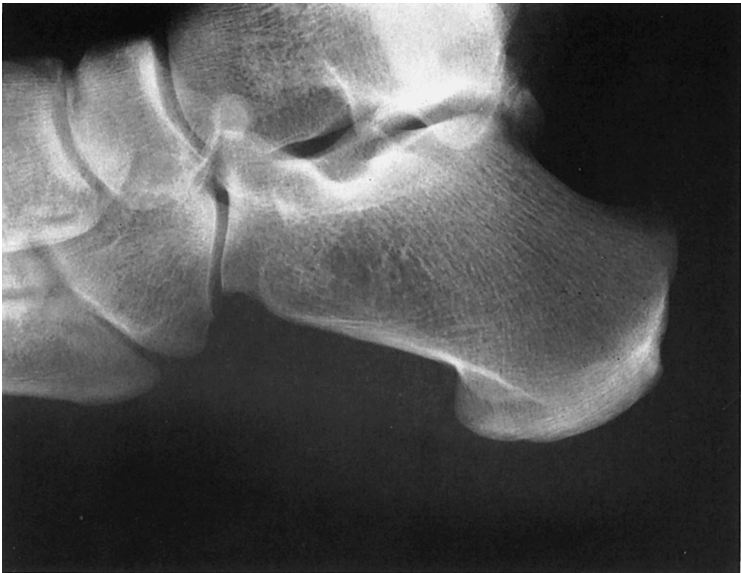
- 27 Os intermetatarsium
- 28 Os vesalianum
- 29 Os peroneum
- 30 Secondary cuboid
- 31 Os tibiale externum
- 32 Os supratalare

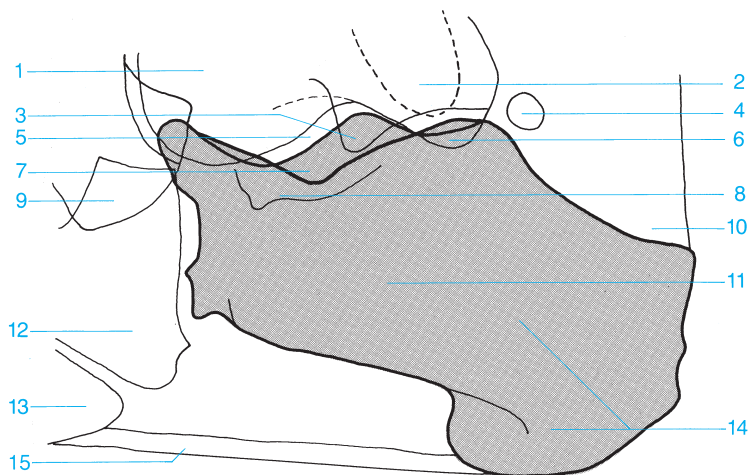






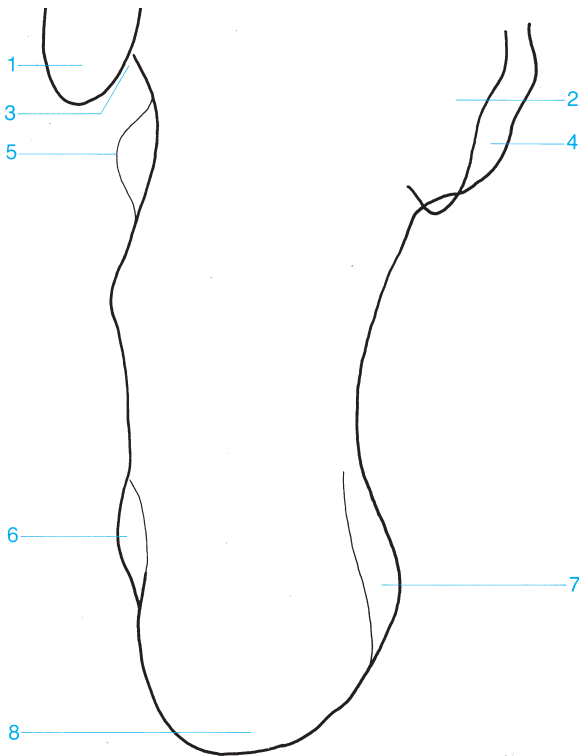
- 1 Metatarsophalangeal joint
- 2 Tarsometatarsal joint
- 3 Medial cuneiform
- 4 Middle cuneiform
- 5 Lateral cuneiform
- 6 Cuneonavicular joint
- 7 Navicular
- 8 Talocalcaneonavicular joint
- 9 Tibia
- 10 Ankle
- 11 Fibula
- 12 Talus
- 13 Posterior process of the talus
- 14 Distal phalanx
- 15 Middle phalanx
- 16 Proximal phalanx
- 17 Sesamoid
- 18 Metatarsal
- 19 Base of fifth metatarsal
- 20 Cuboid
- 21 Calcaneocuboid joint
- 22 Calcaneus
- 23 Posterior tuberosity of the calcaneus





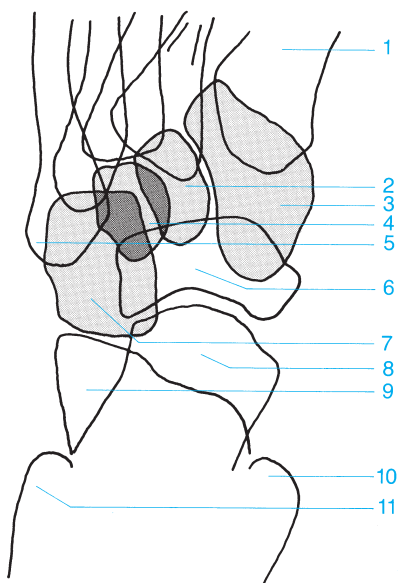
- | | |
|----------------------------------|--|
| 1 Talus | 9 Navicular |
| 2 Lateral malleolus | 10 Achilles tendon |
| 3 Lateral process of the talus | 11 Calcaneus |
| 4 Os trigonum | 12 Cuboid |
| 5 Subtalar joint | 13 Base of fifth metatarsal |
| 6 Posterior process of the talus | 14 Posterior tuberosity of the calcaneus |
| 7 Sinus tarsi | 15 Plantar aponeurosis |
| 8 Sustentaculum tali | |





- | | |
|--|---|
| 1 Lateral malleolus | 6 Lateral process of the posterior tuberosity of the calcaneus |
| 2 Talus | 7 Medial process of the posterior tuberosity of the calcaneus |
| 3 Groove for the peroneus longus tendon | 8 Posterior tuberosity of the calcaneus |
| 4 Sustentaculum tali | |
| 5 Peroneal trochlea | |

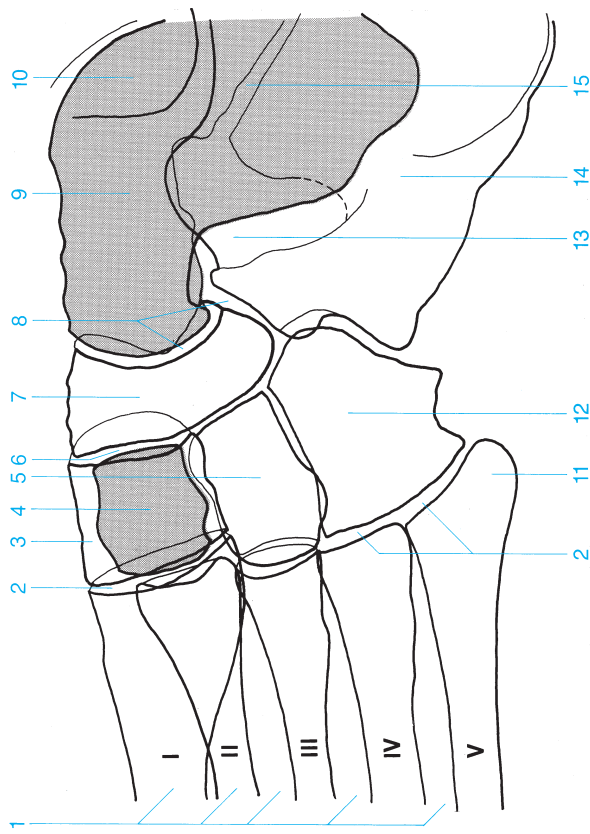




- 1 Metatarsal
- 2 Middle cuneiform
- 3 Medial cuneiform
- 4 Lateral cuneiform
- 5 Base of the fifth metatarsal
- 6 Navicular

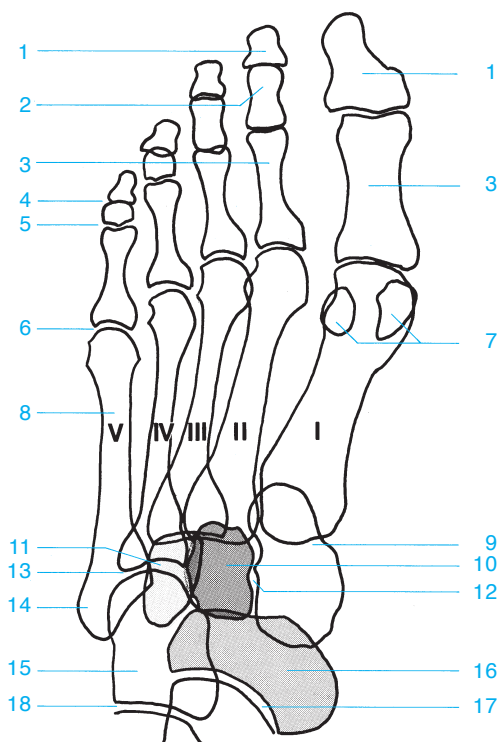
- 7 Cuboid
- 8 Head of the talus
- 9 Calcaneus
- 10 Medial malleolus
- 11 Lateral malleolus





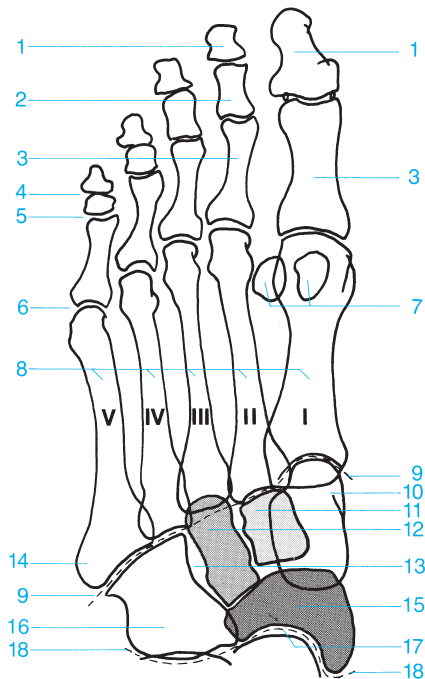
- 1 Metatarsals
- 2 Tarsometatarsal joint
- 3 Medial cuneiform
- 4 Middle cuneiform
- 5 Lateral cuneiform
- 6 Cuneonavicular joint
- 7 Navicular
- 8 Talocalcaneonavicular joint
- 9 Talus
- 10 Malleolus
- 11 Base of the fifth metatarsal
- 12 Cuboid
- 13 Sinus tarsi
- 14 Calcaneus
- 15 Subtalal joint (and talocalcaneonavicular joint)





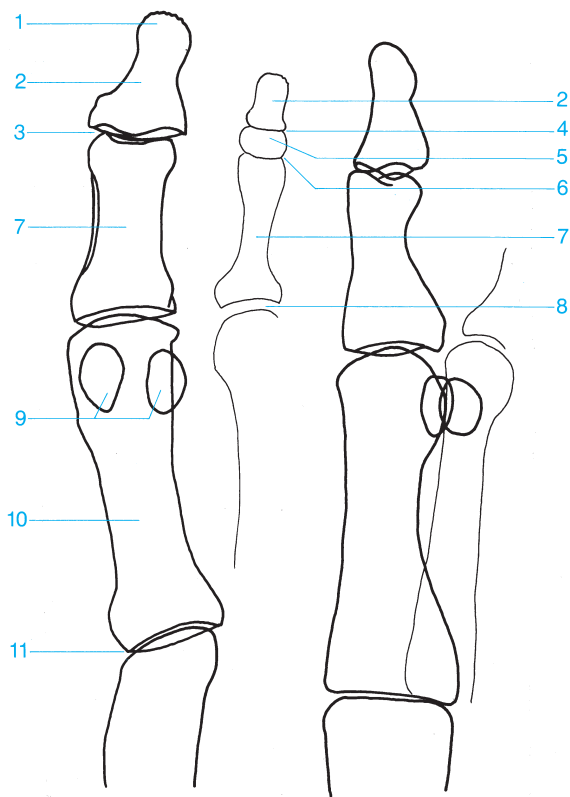
- | | |
|---|--|
| 1 Distal phalanx | 10 Middle cuneiform |
| 2 Middle phalanx | 11 Lateral cuneiform |
| 3 Proximal phalanx | 12 Intertarsal joint |
| 4 Distal interphalangeal joint | 13 Metatarsophalangeal joint |
| 5 Proximal interphalangeal joint | 14 Base of the fifth metatarsal |
| 6 Metatarsophalangeal joint | 15 Cuboid |
| 7 Sesamoids | 16 Navicular |
| 8 Metatarsals | 17 Talocalcaneonavicular joint |
| 9 Medial cuneiform | 18 Calcaneocuboid joint |





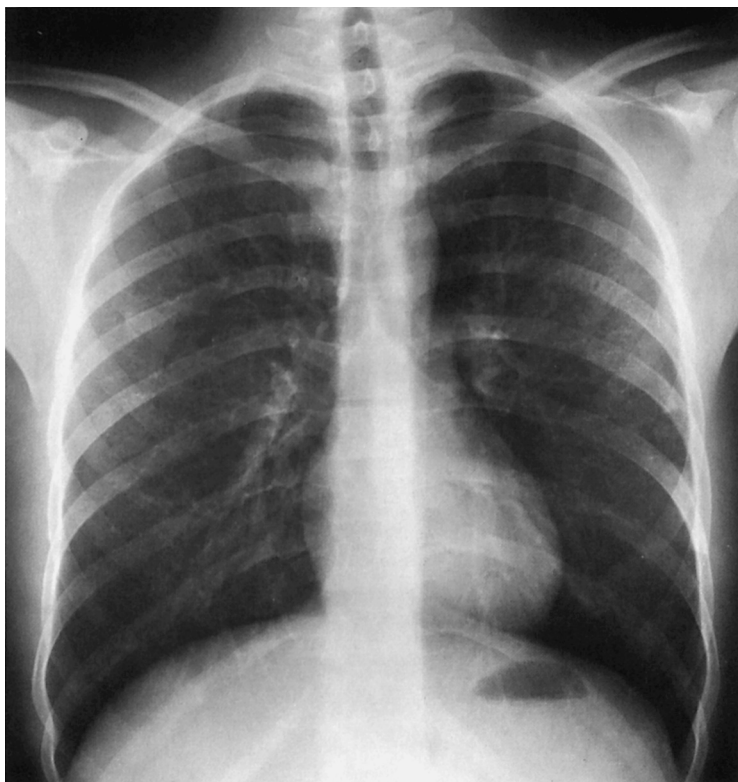
- | | |
|--|--|
| 1 Distal phalanx | 11 Middle cuneiform |
| 2 Middle phalanx | 12 Lateral cuneiform |
| 3 Proximal phalanx | 13 Intertarsal joint |
| 4 Distal interphalangeal joint | 14 Base of the fifth metatarsal |
| 5 Proximal interphalangeal joint | 15 Navicular |
| 6 Metatarsophalangeal joint | 16 Cuboid |
| 7 Sesamoids | 17 Talocalcaneonavicular joint |
| 8 Metatarsals | 18 Transverse tarsal joint (Chopart's joint between the talus, calcaneus, navicular, and cuboid) |
| 9 Tarsometatarsal joint (Lisfranc's joint) | |
| 10 Medial cuneiform | |

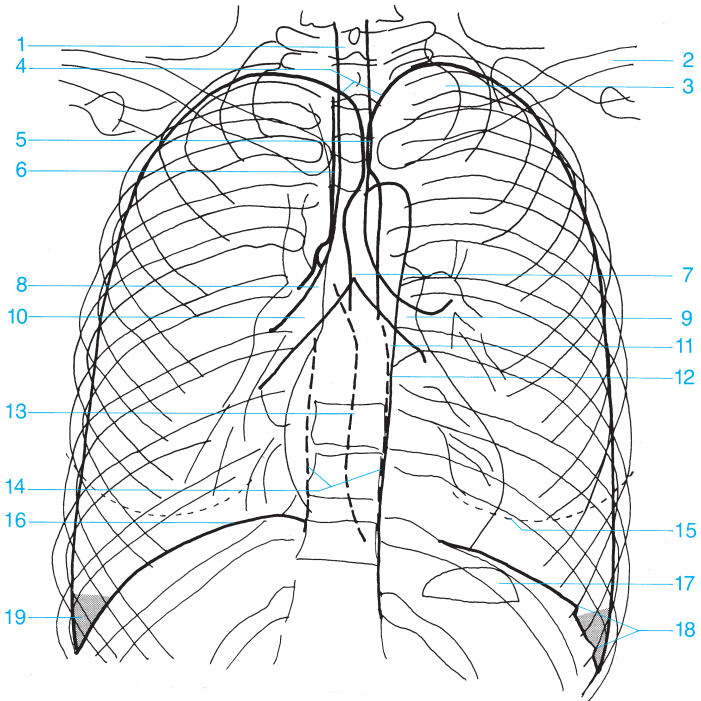




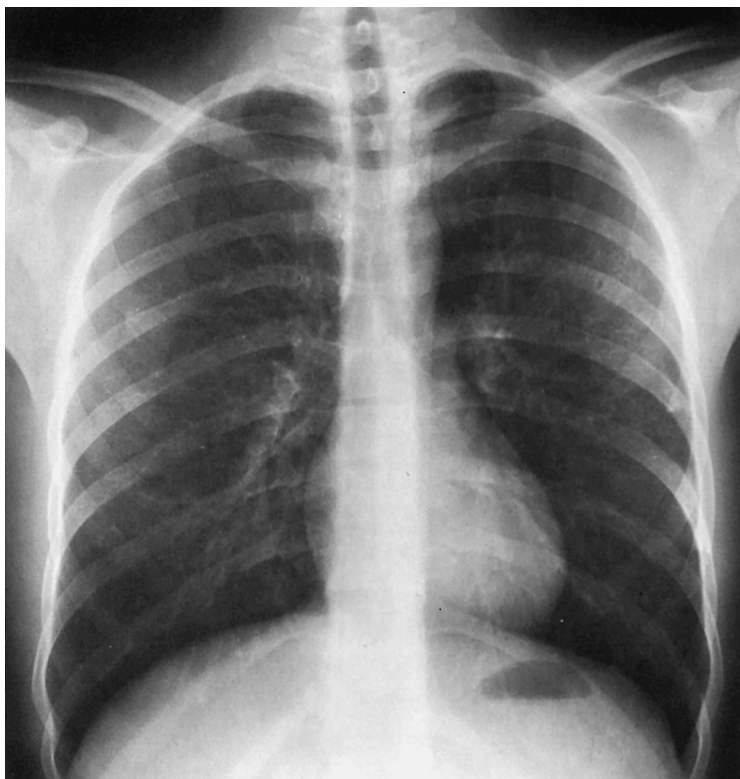
- | | |
|--|-----------------------------|
| 1 Distal phalanx (tuft) | 7 Proximal phalanx |
| 2 Distal phalanx | 8 Metatarsophalangeal joint |
| 3 Interphalangeal joint of the great toe | 9 Sesamoids |
| 4 Distal interphalangeal joint | 10 First metatarsal |
| 5 Middle phalanx | 11 Tarsometatarsal joint |
| 6 Proximal interphalangeal joint | |

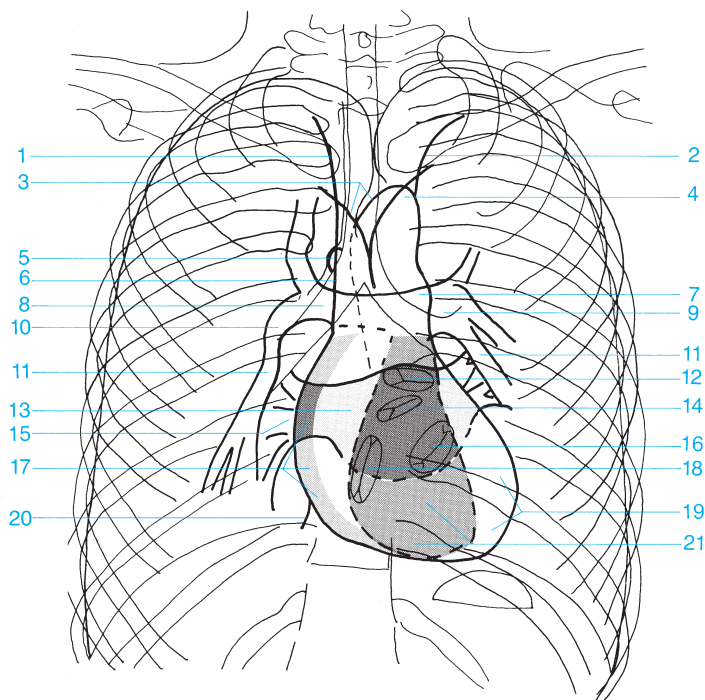
Anatomy of Miscellaneous Plain Films





- | | |
|---|---|
| 1 Trachea | 11 Paraaortic stripe |
| 2 Clavicle | 12 Descending aorta |
| 3 Apex of the lung | 13 Azygoesophageal stripe |
| 4 Curve of the apex of the lung | 14 Paraspinal stripe |
| 5 Posterior border between the right and left lungs | 15 Shadow of the breast |
| 6 Right paratracheal stripe | 16 Diaphragm |
| 7 Carina of the trachea | 17 Gastric bubble |
| 8 Right main bronchus | 18 Insertions of the diaphragm |
| 9 Left main bronchus | 19 Costodiaphragmatic recess (costophrenic angle) |
| 10 Intermediate bronchus | |

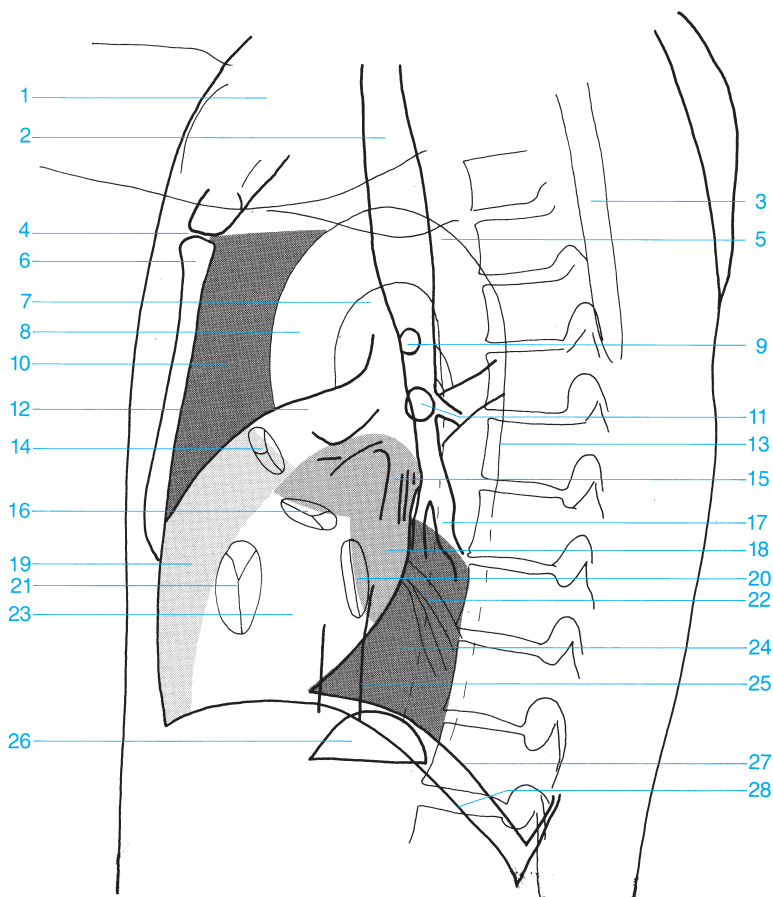




- | | |
|--|--|
| 1 Contour of the right brachiocephalic vein | 11 Inferior lobar branch of the pulmonary artery |
| 2 Contour of the subclavian artery | 12 Pulmonary valve |
| 3 Subclavian and aortic arches | 13 Left atrium |
| 4 Aortic arch | 14 Aortic valve |
| 5 Azygos vein | 15 Venous confluence |
| 6 Superior vena cava | 16 Mitral valve |
| 7 Main pulmonary artery | 17 Right atrium |
| 8 Right pulmonary artery | 18 Tricuspid valve |
| 9 Left pulmonary artery | 19 Left ventricle |
| 10 Intermediate part of the right pulmonary artery | 20 Inferior vena cava |
| | 21 Right ventricle |

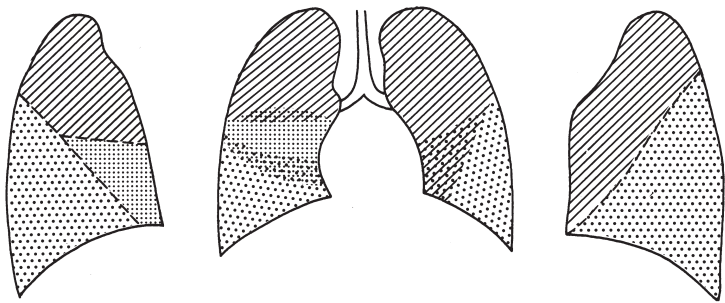
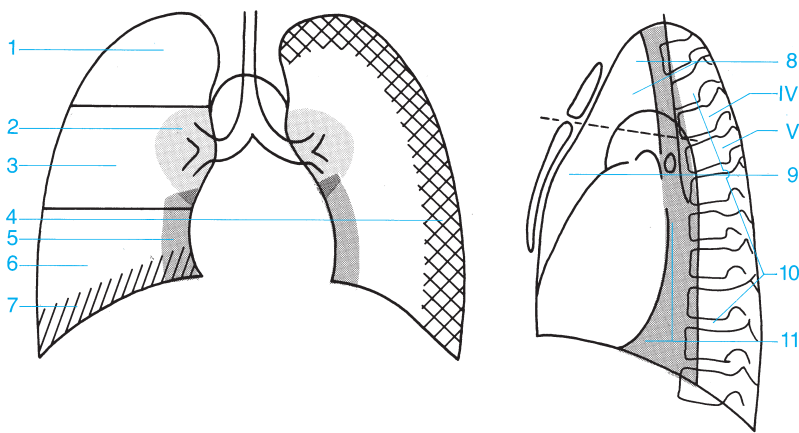


- | | |
|--------------------------------|-----------------------------|
| 1 Soft tissues of the shoulder | 10 Retrosternal space |
| 2 Trachea | 11 Left upper lobe bronchus |
| 3 Scapula | 12 Main pulmonary artery |
| 4 Sternal angle | 13 Descending aorta |
| 5 Aortic arch | 14 Pulmonary valve |
| 6 Body of the sternum | 15 Pulmonary veins |
| 7 Aortopulmonary window | 16 Aortic valve |
| 8 Ascending aorta | 17 Lower lobe bronchus |
| 9 Right upper lobe bronchus | 18 Left atrium |

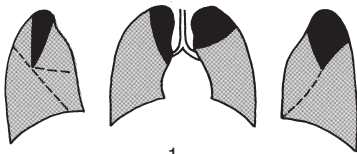


- 19 Right ventricle
- 20 Mitral valve
- 21 Tricuspid valve
- 22 Pulmonary veins
- 23 Left ventricle
- 24 Retrocardiac space

- 25 Inferior vena cava
- 26 Gastric bubble
- 27 Left hemidiaphragm (tangent to the gastric bubble and ending in the shadow of the heart)
- 28 Right hemidiaphragm

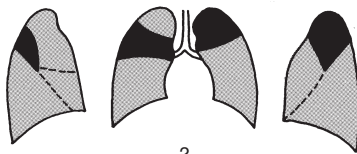


- | | |
|-----------------------------|---|
| 1 Upper region of the lung | 7 Supradiaphragmatic region |
| 2 Perihilar region | 8 Superior anterior mediastinum |
| 3 Middle region of the lung | 9 Inferior anterior mediastinum |
| 4 Chest wall | 10 Posterior mediastinum |
| 5 Pericardial region | 11 Middle mediastinum (fourth and fifth thoracic vertebrae) |
| 6 Lower region of the lung | |



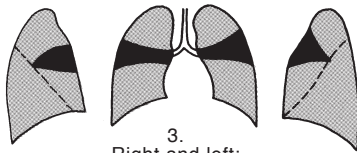
1.

Right: apical segment of the upper lobe
Left: apical posterior segment of the upper lobe



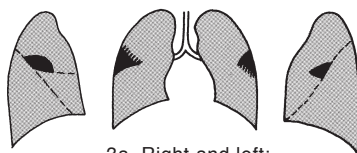
2.

Right: posterior segment of the upper lobe
Left: apical posterior segment of the upper lobe

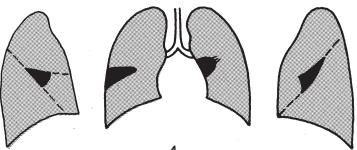


3.

Right and left:
anterior segment of the upper lobe

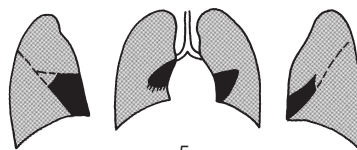


3a. Right and left:
axillary subsegment



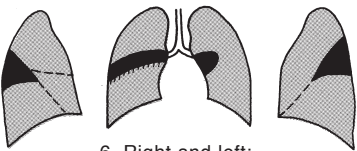
4.

Right: lateral segment of the middle lobe
Left: superior lingular segment



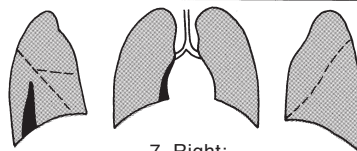
5.

Right medial segment of the middle lobe
Left: inferior lingular segment



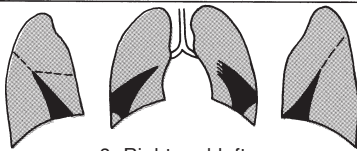
6. Right and left:

superior segment of the lower lobe



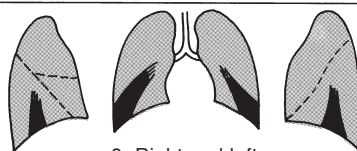
7. Right:

medial segment of the lower lobe



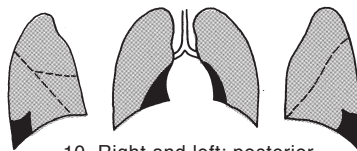
8. Right and left:

anterior basal segment of the lower lobe



9. Right and left:

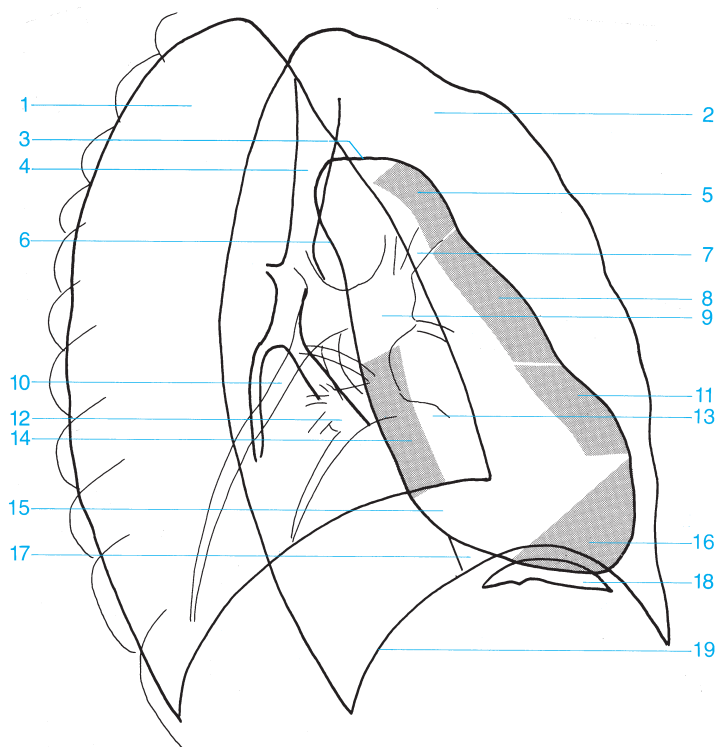
lateral basal segment of the lower lobe



10. Right and left: posterior
basal segment of the lower lobe

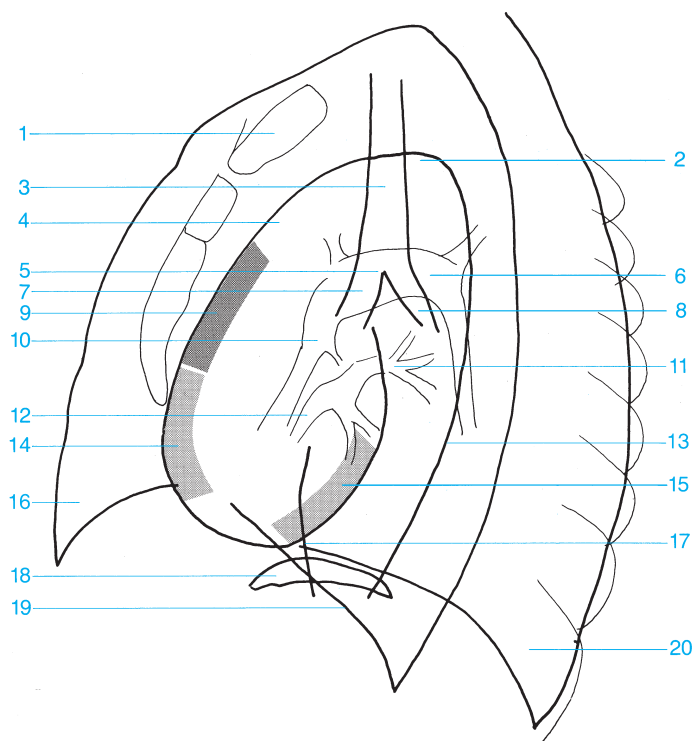
Segments of the lung





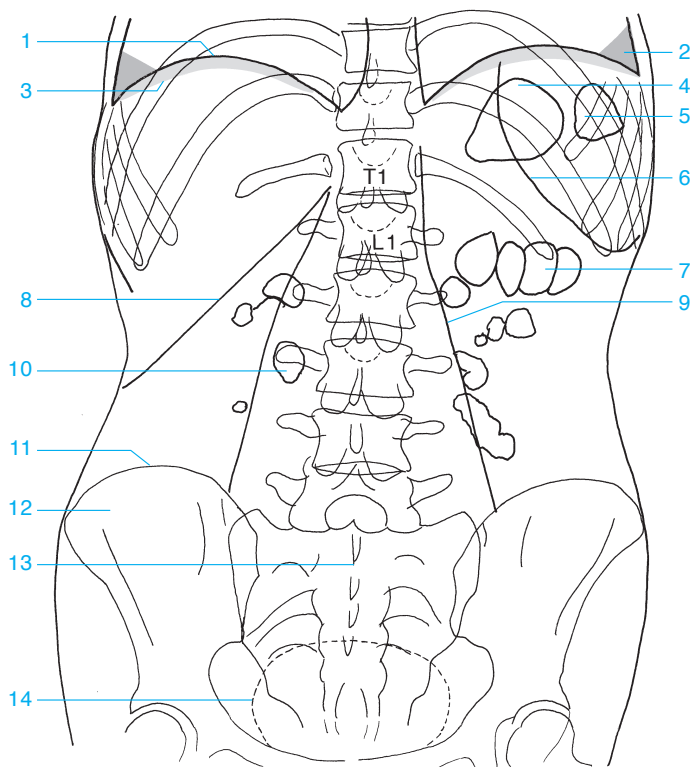
- | | |
|--|----------------------------------|
| 1 Right lung | 11 Infundibulum |
| 2 Left lung | 12 Inferior right pulmonary vein |
| 3 Aortic arch | 13 Inferior left pulmonary vein |
| 4 Trachea | 14 Left atrium |
| 5 Ascending aorta | 15 Right atrium |
| 6 Descending aorta | 16 Left ventricle |
| 7 Left upper lobe pulmonary vein, artery, and bronchus | 17 Inferior vena cava |
| 8 Main pulmonary artery | 18 Gastric bubble |
| 9 Left pulmonary artery | 19 Diaphragm |
| 10 Right inferior lobar branch of the pulmonary artery | |



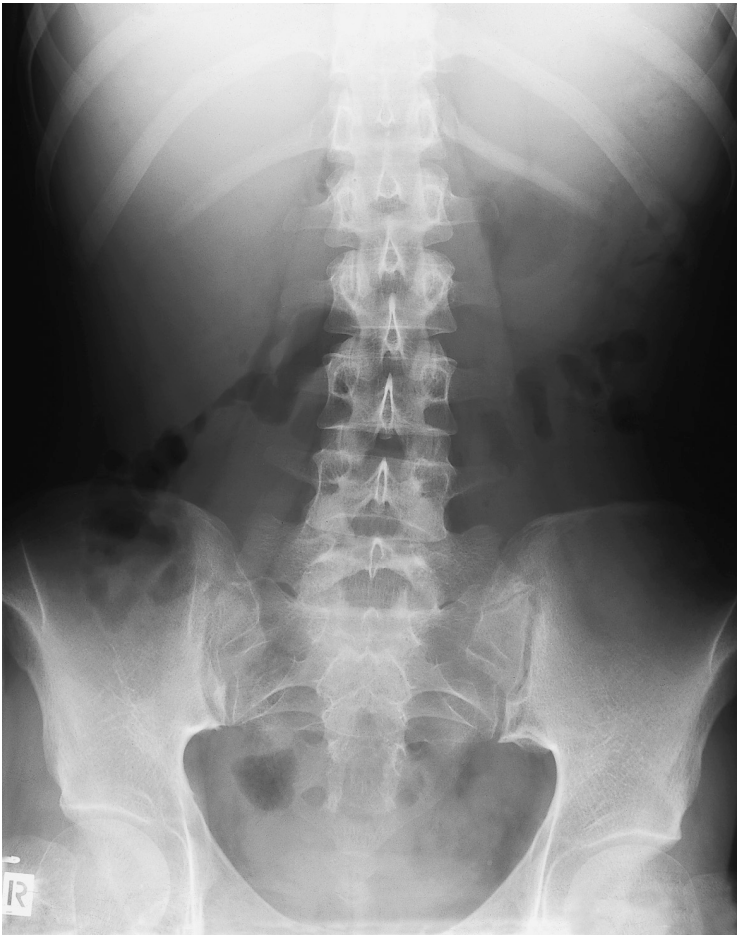


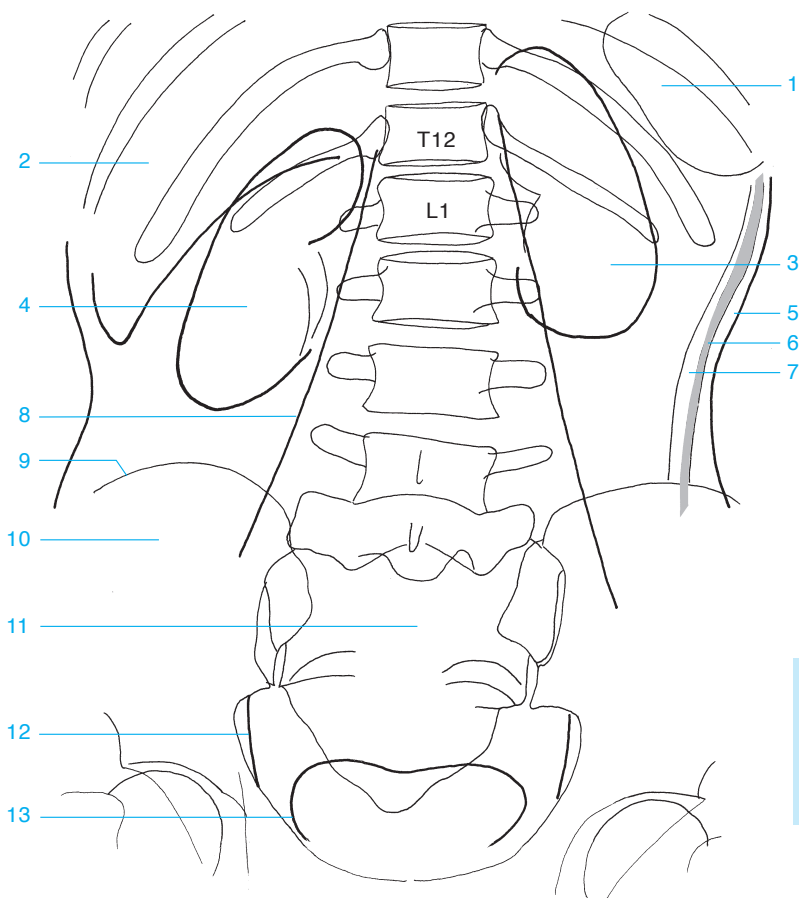
- | | |
|---------------------------|--|
| 1 Sternum | 12 Right pulmonary vein |
| 2 Aortic arch | 13 Descending aorta |
| 3 Trachea | 14 Right ventricle |
| 4 Ascending aorta | 15 Left ventricle |
| 5 Carina of the trachea | 16 Right lung |
| 6 Left pulmonary artery | 17 Inferior vena cava |
| 7 Right main bronchus | 18 Gastric bubble (left hemidiaphragm) |
| 8 Left main bronchus | 19 Right hemidiaphragm |
| 9 Right atrium | 20 Left lung |
| 10 Right pulmonary artery | |
| 11 Left pulmonary vein | |

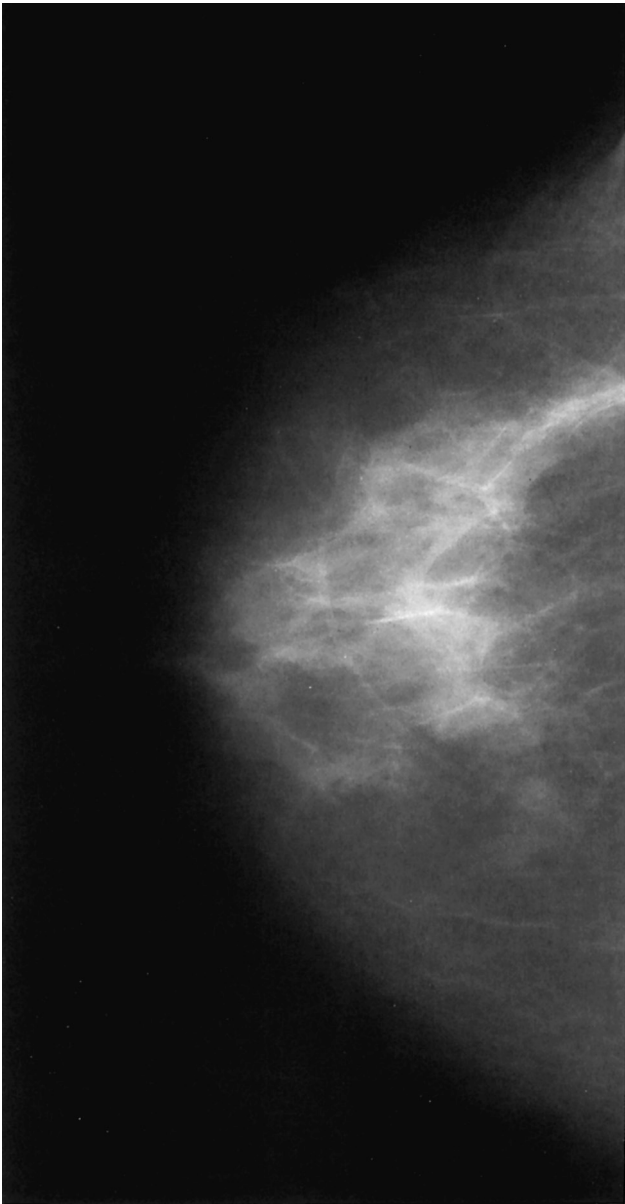


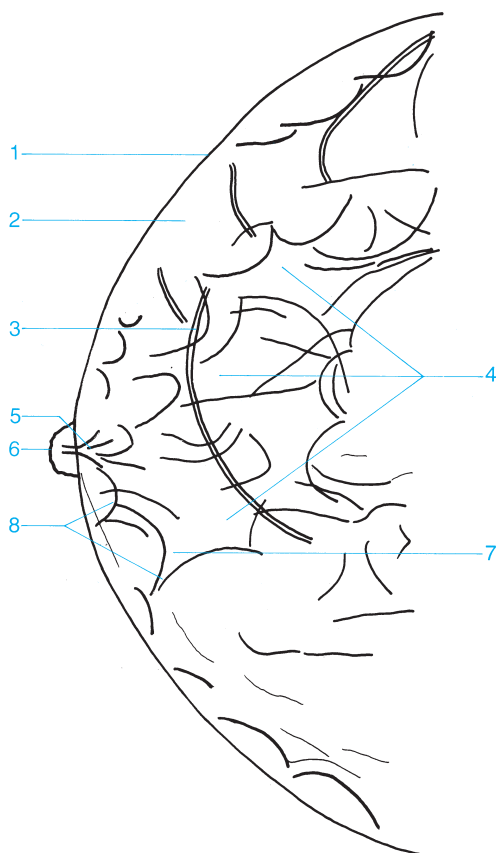


- | | |
|--|--------------------------------|
| 1 Diaphragm | 7 Gas in the transverse colon |
| 2 Costodiaphragmatic recess (costophrenic angle) | 8 Inferior margin of the liver |
| 3 Subphrenic space | 9 Margin of the psoas |
| 4 Gastric bubble | 10 Gas in the small bowel |
| 5 Gas in the splenic flexure of the colon | 11 Iliac crest |
| 6 Lower margin of the spleen | 12 Ilium |
| | 13 Sacrum |
| | 14 Urinary bladder |





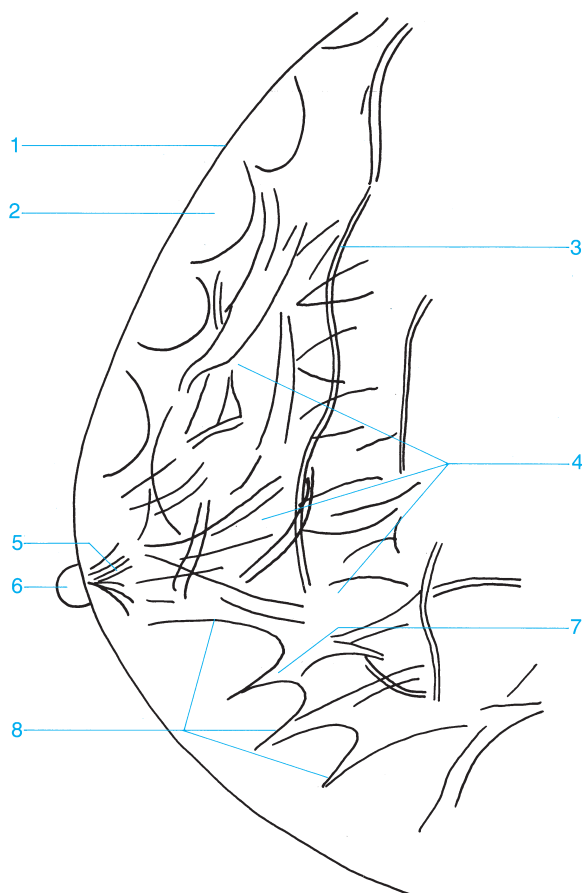




- 1 Skin
- 2 Subcutaneous fat
- 3 Veins
- 4 Glandular tissue

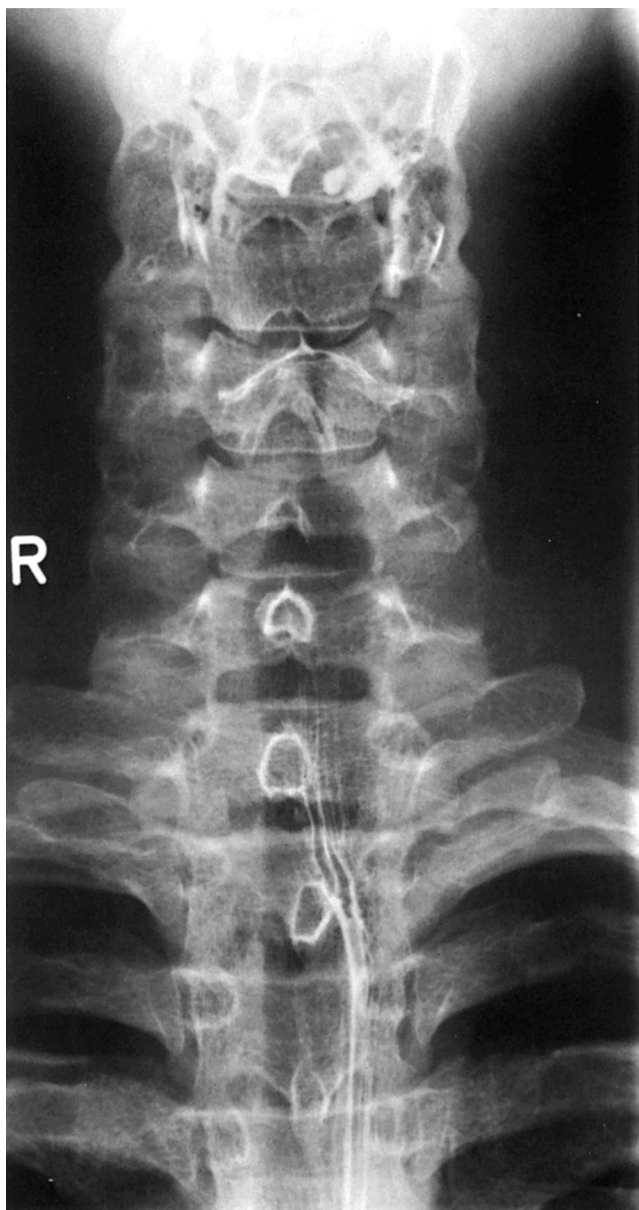
- 5 Lactiferous duct posterior to the nipple
- 6 Nipple
- 7 Contour of a lobule
- 8 Cooper's ligaments

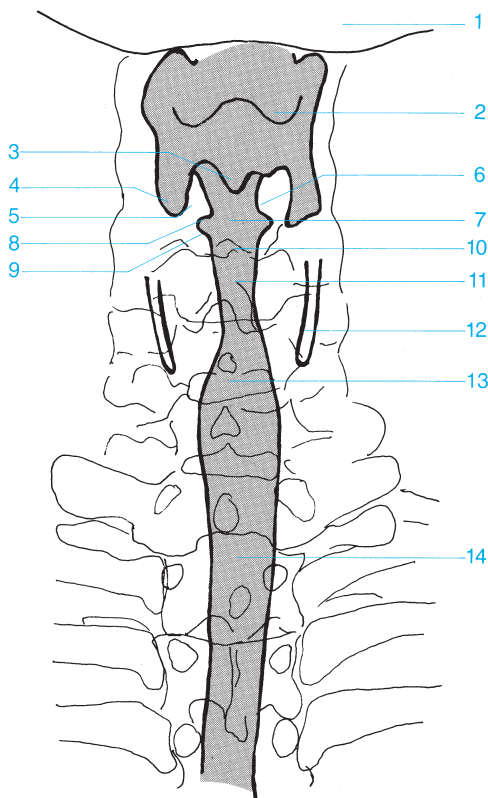




- 1 Skin
- 2 Subcutaneous fat
- 3 Veins
- 4 Glandular tissue

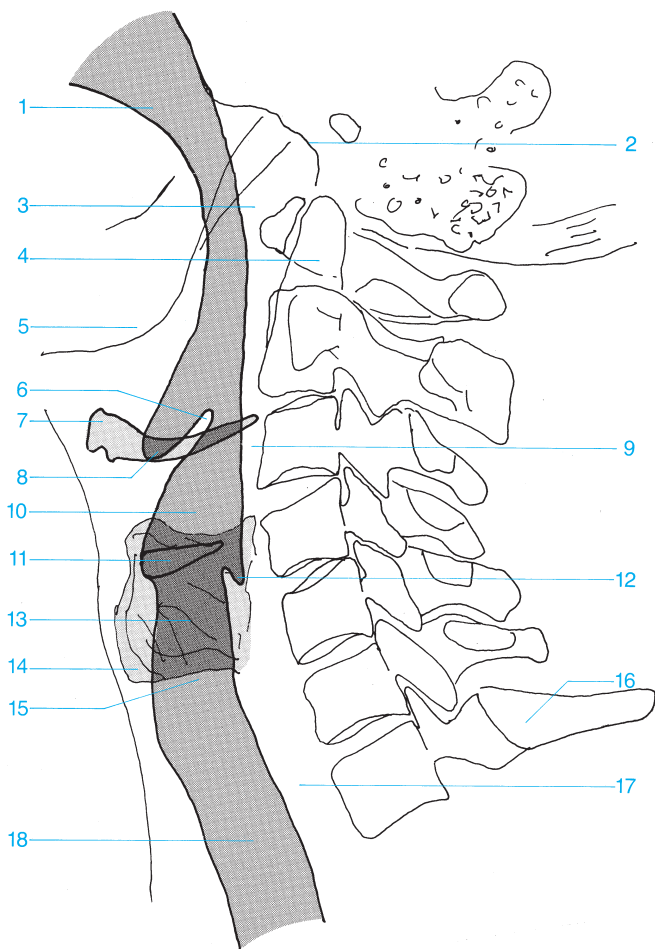
- 5 Lactiferous duct posterior to the nipple
- 6 Nipple
- 7 Contour of a lobule
- 8 Cooper's ligaments



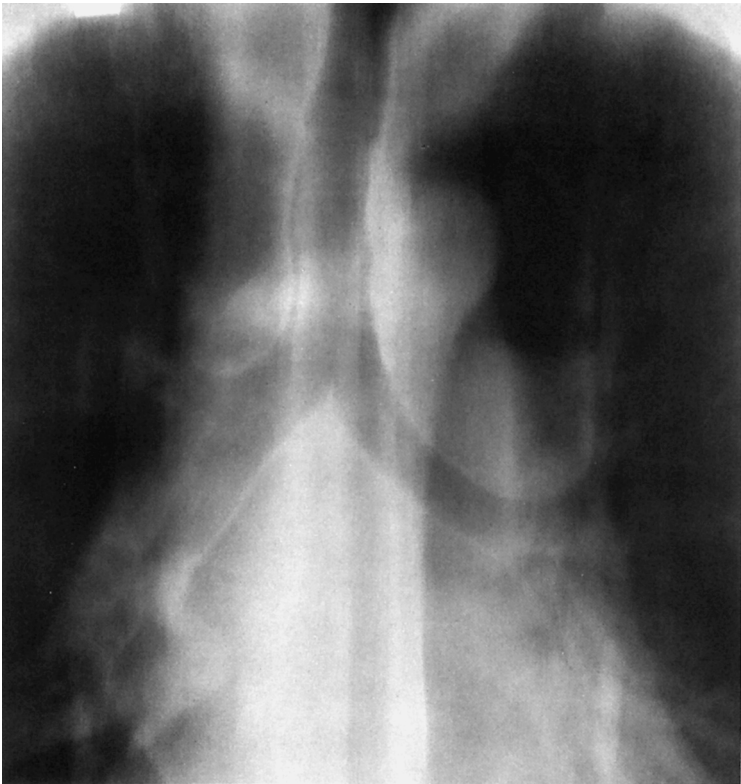


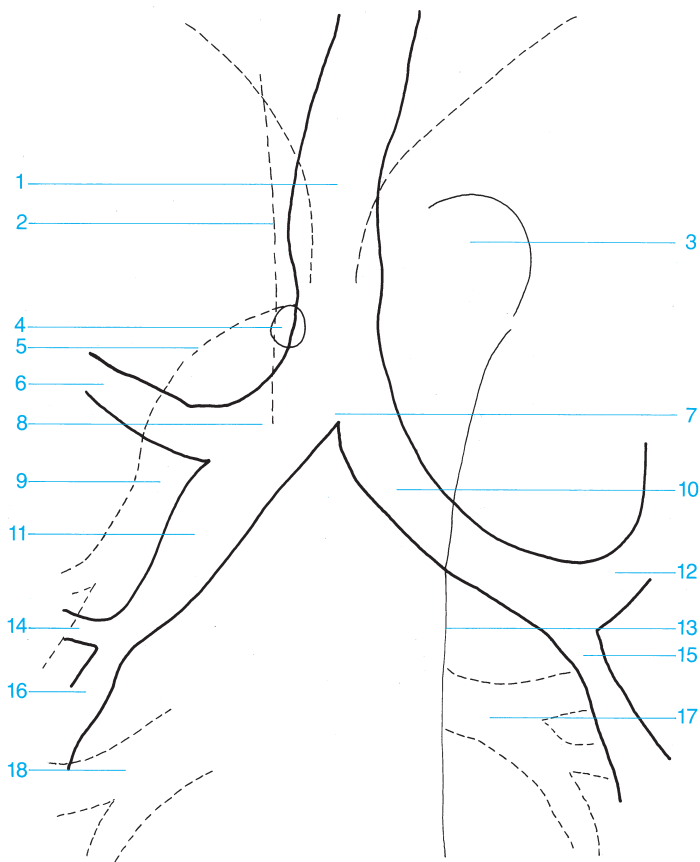
- | | |
|--------------------------------------|--------------------------------|
| 1 Mandible | 8 Ventricle of the larynx |
| 2 Floor of the vallecula | 9 Vocal fold (true vocal cord) |
| 3 Interarytenoid notch | 10 Rima glottidis |
| 4 Piriform recess | 11 Subglottic space |
| 5 Arytenoid cartilages | 12 Thyroid cartilage |
| 6 Vestibular fold (false vocal cord) | 13 Proximal trachea |
| 7 Vestibule of the larynx | 14 Distal trachea |



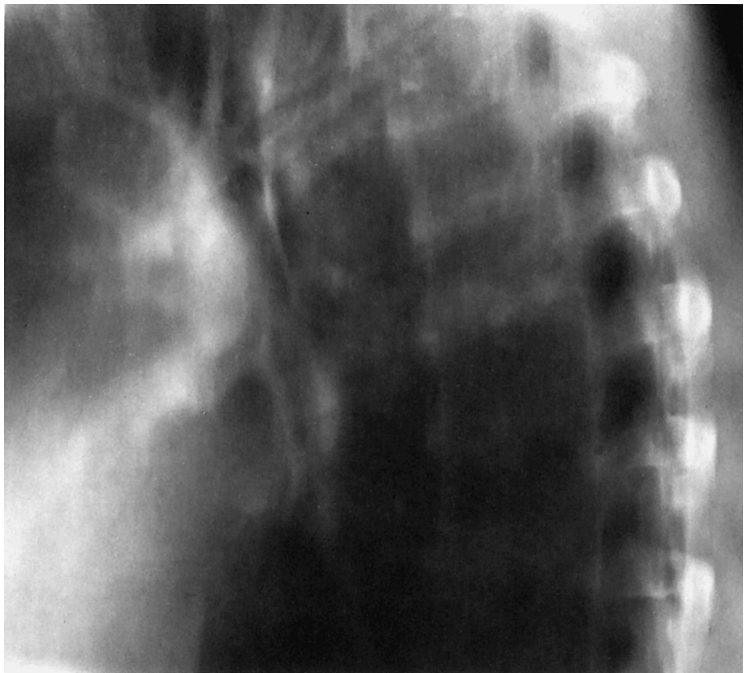


- | | |
|----------------------------|---|
| 1 Oral cavity | 11 Ventricle of the larynx |
| 2 Base of the skull | 12 Inferior posterior margin of the piriform recess |
| 3 Posterior nasopharynx | 13 Subglottic space |
| 4 Dens of the axis | 14 Thyroid cartilage |
| 5 Mandible | 15 Proximal trachea |
| 6 Epiglottis | 16 Vertebra C7 |
| 7 Hyoid bone | 17 Esophagus |
| 8 Floor of the vallecula | 18 Distal trachea |
| 9 Retropharyngeal space | |
| 10 Vestibule of the larynx | |



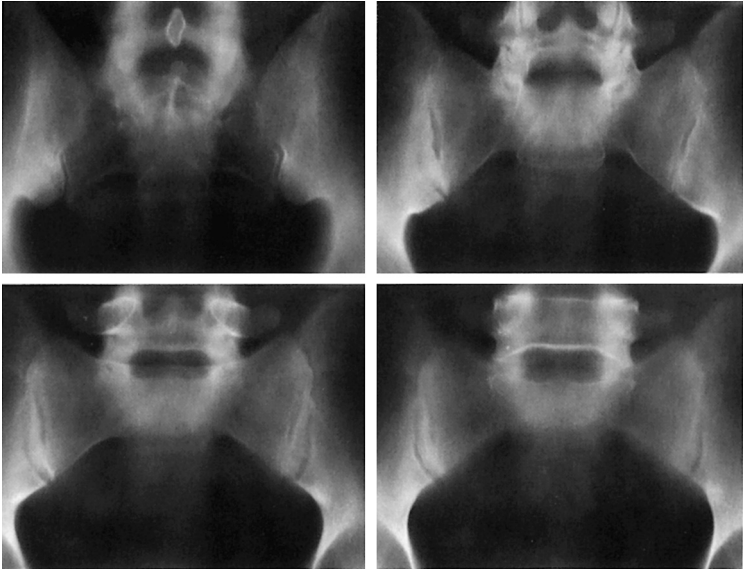


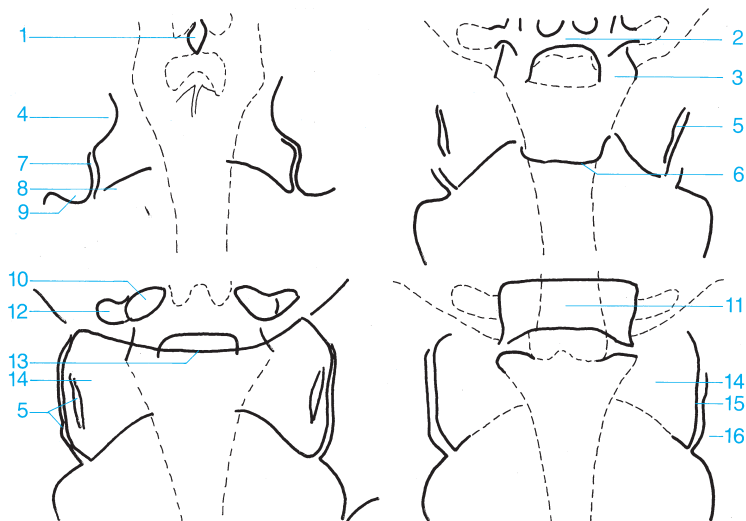
- | | |
|---|------------------------------|
| 1 Trachea | 10 Left main bronchus |
| 2 Superior vena cava | 11 Intermediate bronchus |
| 3 Aortic arch | 12 Left upper lobe bronchus |
| 4 Azygos vein | 13 Descending aorta |
| 5 Right pulmonary artery | 14 Middle lobe bronchus |
| 6 Right upper lobe bronchus | 15 Left lower lobe bronchus |
| 7 Bifurcation of the trachea | 16 Right lower lobe bronchus |
| 8 Right main bronchus | 17 Pulmonary veins |
| 9 Inferior lobar branch of the pulmonary artery | 18 Venous confluence |





- | | |
|---|---|
| 1 Trachea | 7 Middle lobe bronchus |
| 2 Superior lobar branch of the pulmonary artery | 8 Middle lobar branch of the pulmonary artery |
| 3 Origin of the upper lobe bronchus | 9 Inferior lobar branch of the pulmonary artery |
| 4 Intermediate bronchus | 10 Lower lobe bronchus |
| 5 Right pulmonary artery | |
| 6 Segmental bronchus of the lower lobe | |

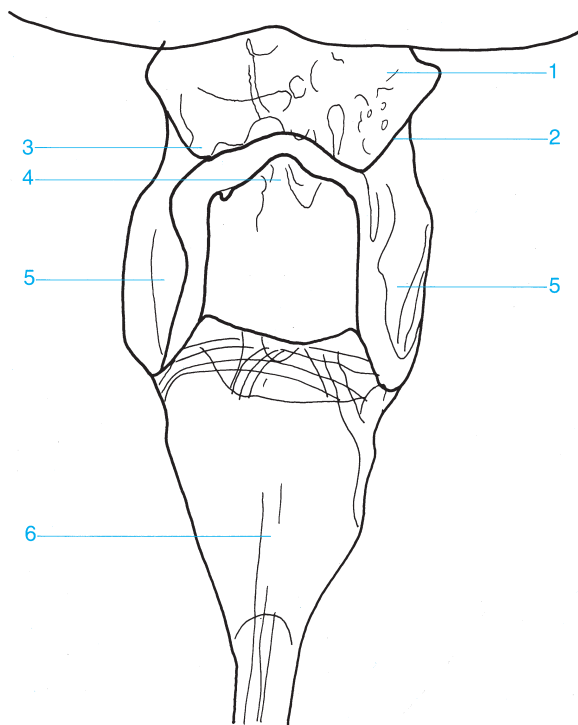




- | | |
|---|--|
| 1 Spinous process | 9 Posterior inferior iliac spine |
| 2 Lamina | 10 Pedicle |
| 3 Inferior articular process | 11 L5 |
| 4 Posterior superior iliac spine | 12 Transverse process |
| 5 Middle portion of the sacroiliac joint | 13 Promontory |
| 6 Anterior aspect of the sacrum | 14 Sacral ala |
| 7 Posterior inferior aspect of the sacroiliac joint | 15 Anterior aspect of the sacroiliac joint |
| 8 Sacral foramina | 16 Ilium (iliac wing) |

Contrast Studies

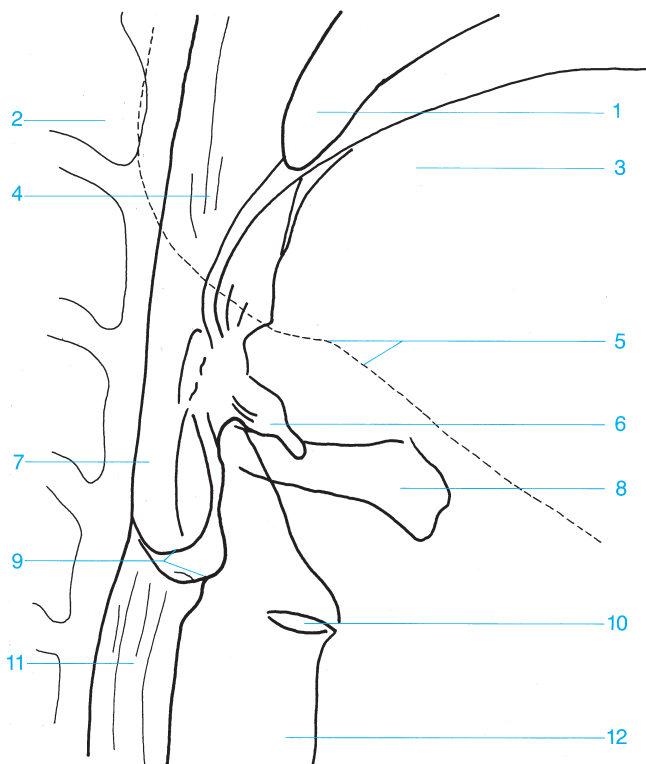




- 1 Pharynx
- 2 Lateral glossoepiglottic fold
- 3 Vallecula

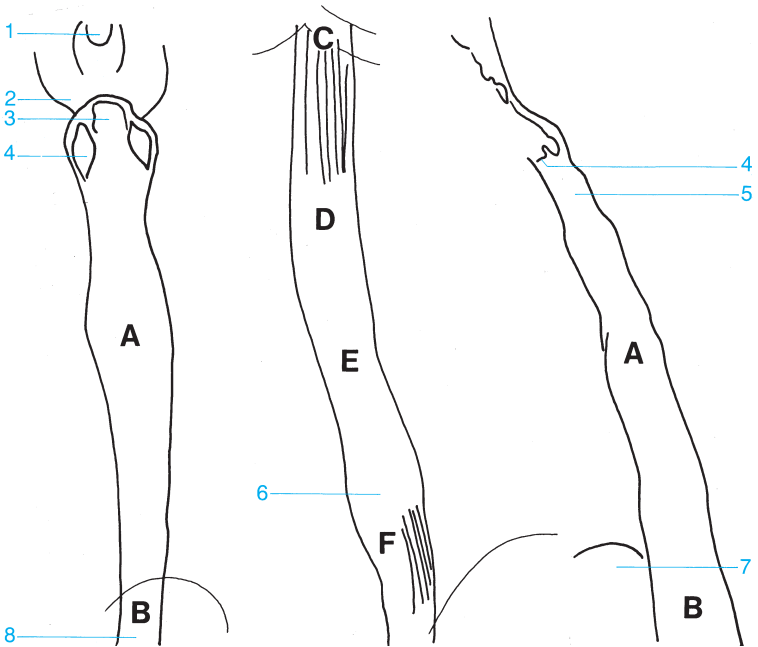
- 4 Epiglottis
- 5 Piriform recess
- 6 Esophagus





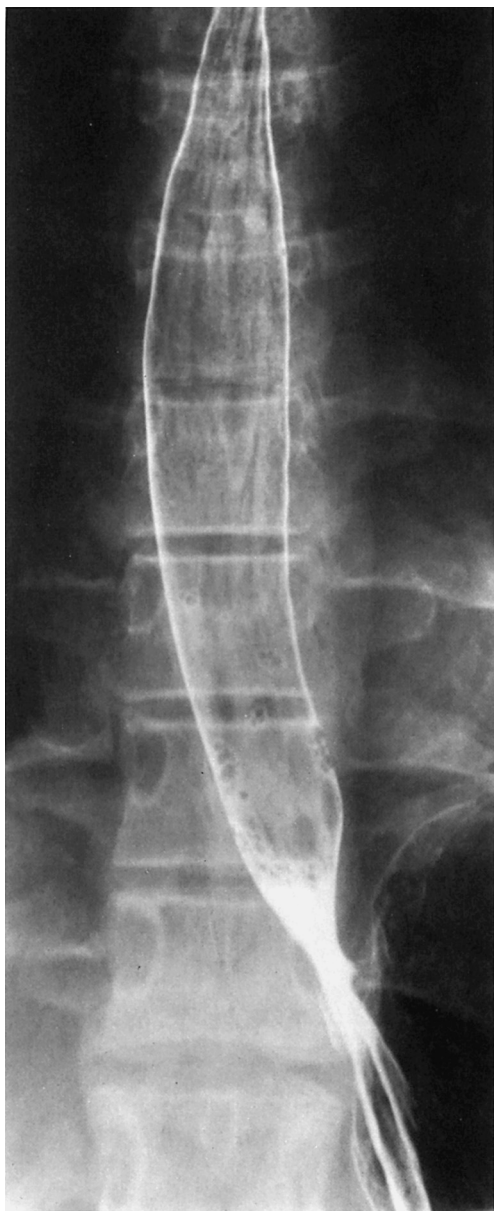
- | | |
|-------------------------|----------------------------|
| 1 Uvula | 7 Larynx |
| 2 Cervical spine (axis) | 8 Hyoid bone |
| 3 Tongue | 9 Piriform recess |
| 4 Oropharynx | 10 Ventricle of the larynx |
| 5 Mandible | 11 Esophagus |
| 6 Vallecula | 12 Trachea |

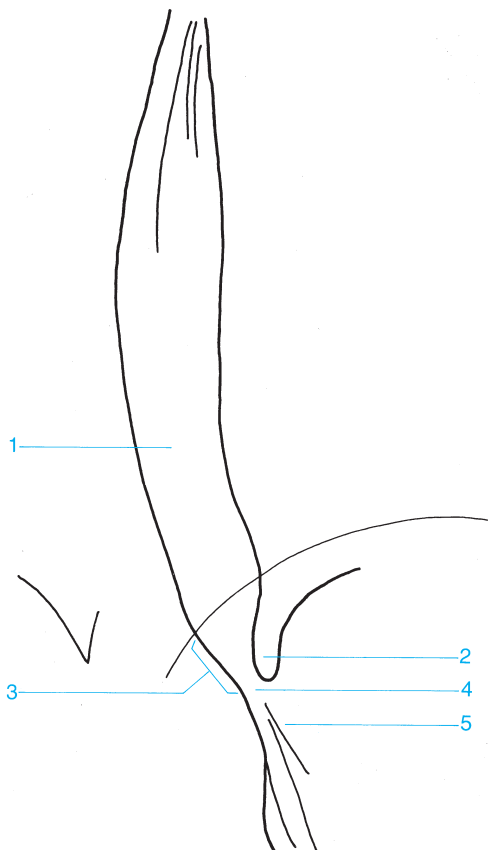




- 1 Uvula
- 2 Lateral glossoepiglottic fold
- 3 Epiglottis
- 4 Piriform recess
- 5 Upper esophageal sphincter
- 6 Body of the esophagus
- 7 Aortic arch
- 8 Bronchial and aortic segment

- A Paratracheal segment
- B Aortic segment
- C Bronchial segment
- D Interbronchial segment
- E Retrocardiac segment
- F Epiphrenic segment

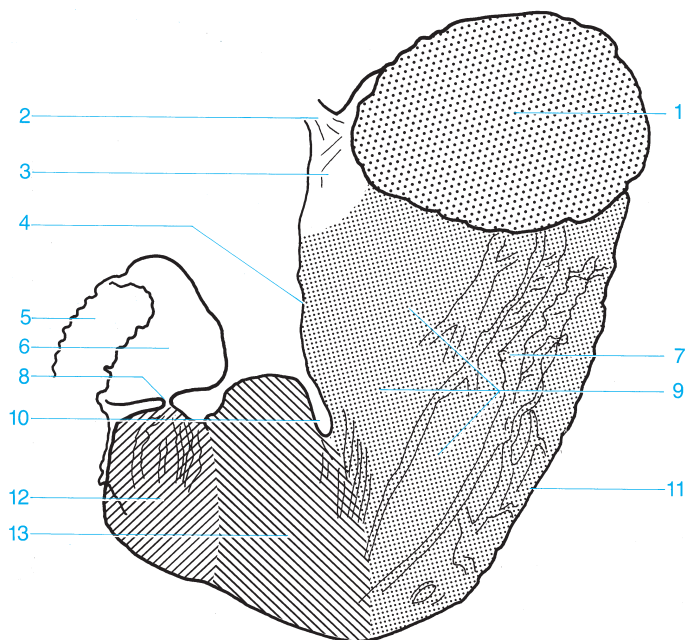




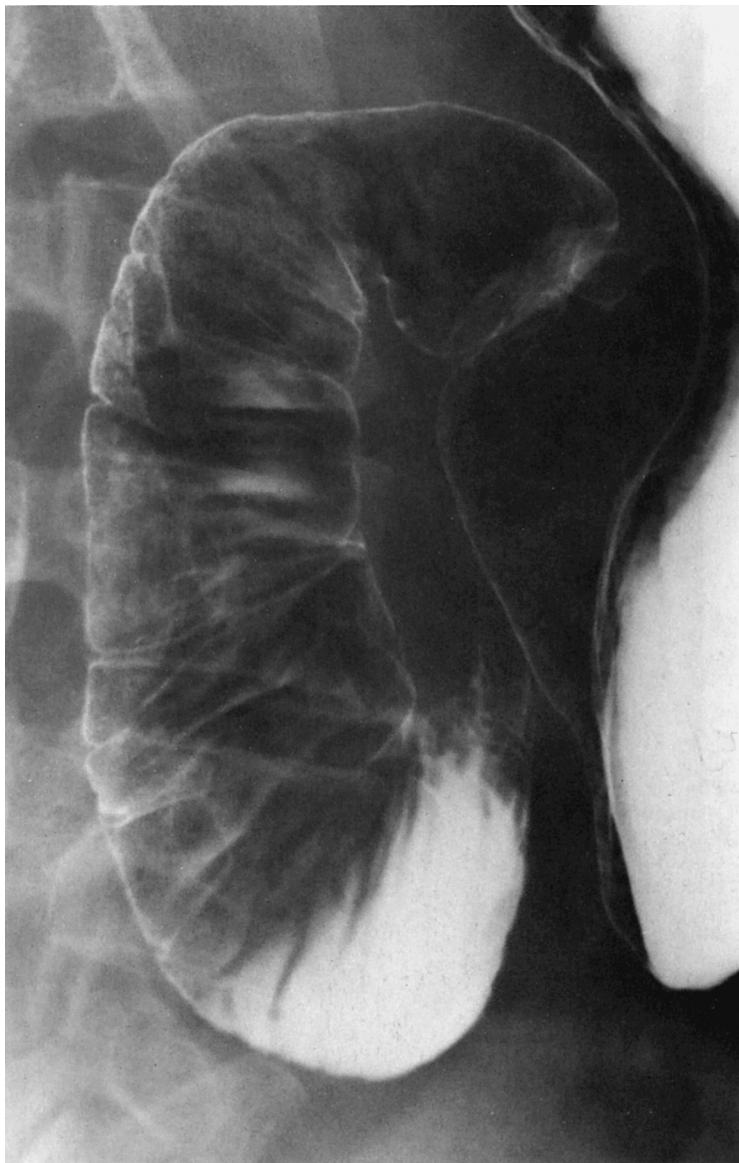
- 1 Distal esophagus
- 2 Gastroesophageal angle
- 3 Abdominal esophagus

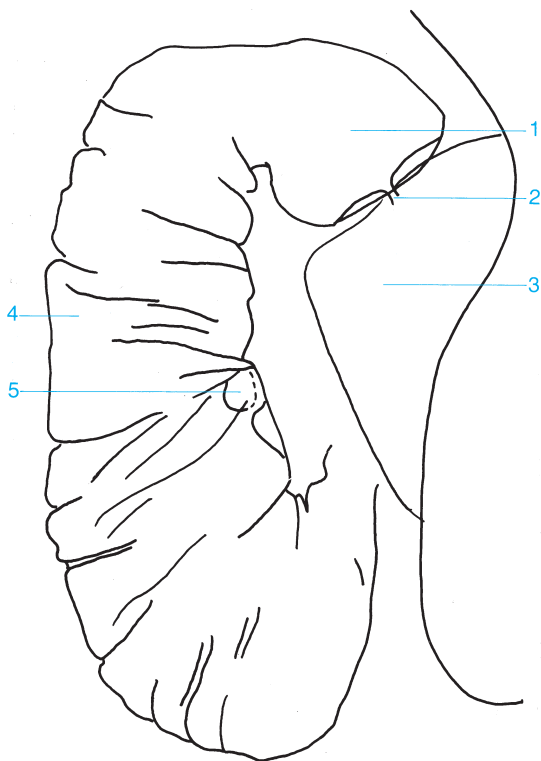
- 4 Esophageal hiatus
- 5 Cardia





- | | |
|----------------------------------|-----------------------|
| 1 Fundus | 8 Pylorus |
| 2 Abdominal esophagus | 9 Body of the stomach |
| 3 Cardia | 10 Angular notch |
| 4 Lesser curvature | 11 Greater curvature |
| 5 Duodenum | 12 Pyloric antrum |
| 6 Ampulla of Vater | 12 + 13 Antrum |
| 7 Gastric folds (posterior wall) | |

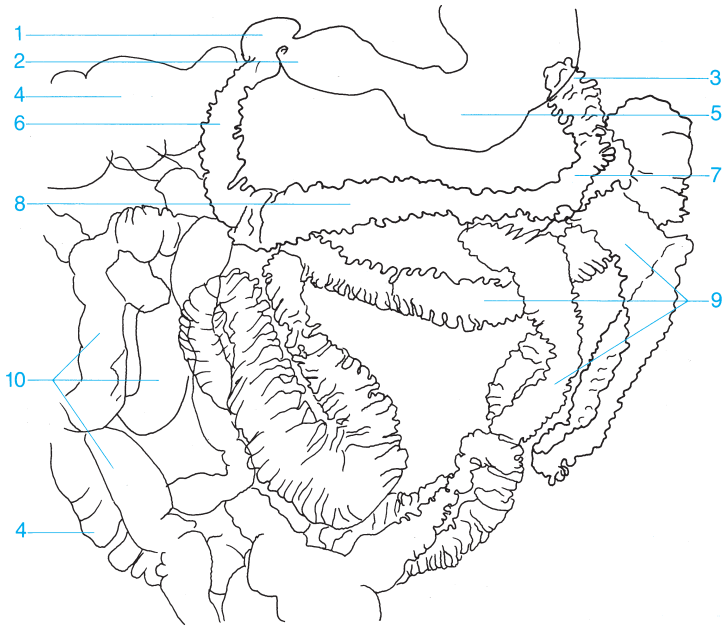




- 1 Ampulla of Vater
- 2 Pylorus
- 3 Pyloric antrum

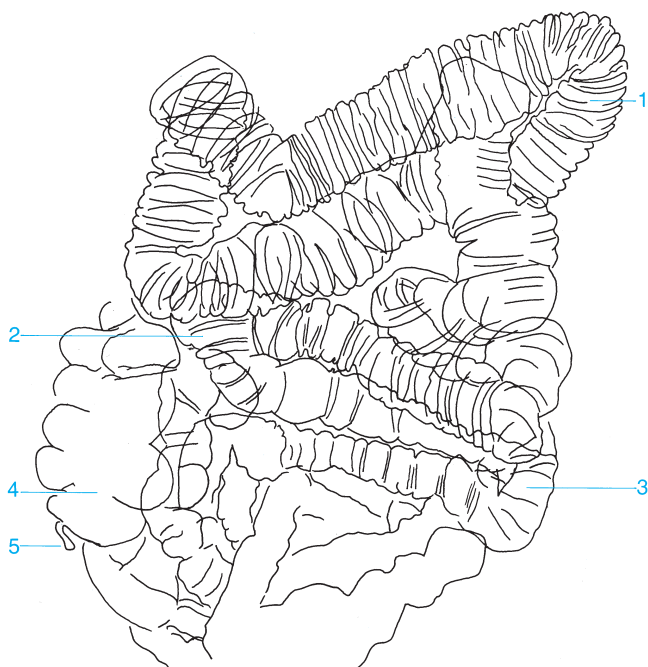
- 4 Descending duodenum
- 5 Papilla of Vater





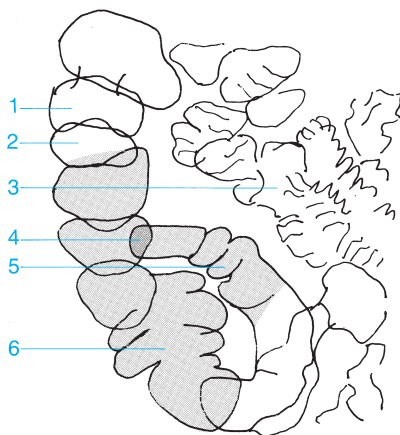
- | | |
|--------------------------|-------------------------------|
| 1 Ampulla of Vater | 6 Descending duodenum |
| 2 Pyloric antrum | 7 Ascending duodenum |
| 3 Duodenojejunal flexure | 8 Horizontal part of duodenum |
| 4 Colon | 9 Jejunum |
| 5 Body of the stomach | 10 Ileum |





- | | |
|-------------------------------------|------------|
| 1 Jejunum | 4 Cecum |
| 2 Junction of the ileum and jejunum | 5 Appendix |
| 3 Ileum | |

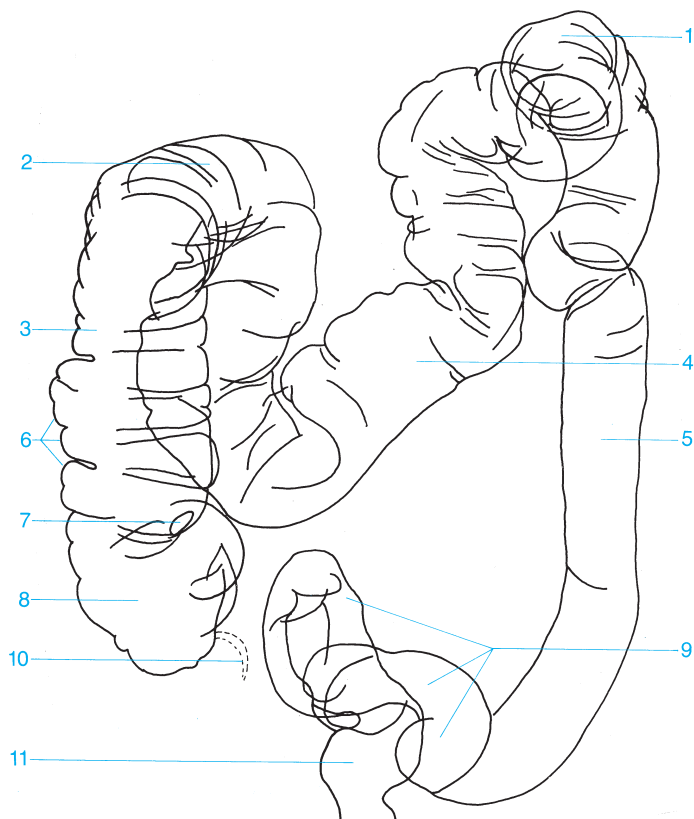




- 1 Haustra of the colon
- 2 Ascending colon
- 3 Ileum

- 4 Ileocecal valve
- 5 Terminal ileum
- 6 Cecum

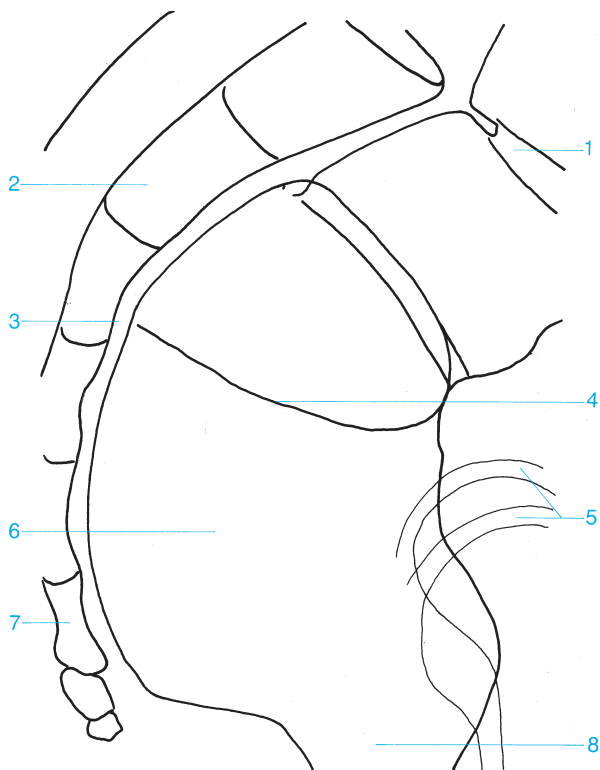




- 1 Splenic flexure of the colon
- 2 Hepatic flexure of the colon
- 3 Ascending colon
- 4 Transverse colon
- 5 Descending colon
- 6 Haustra

- 7 Ileocecal valve
- 8 Cecum
- 9 Sigmoid colon
- 10 Appendix
- 11 Rectum

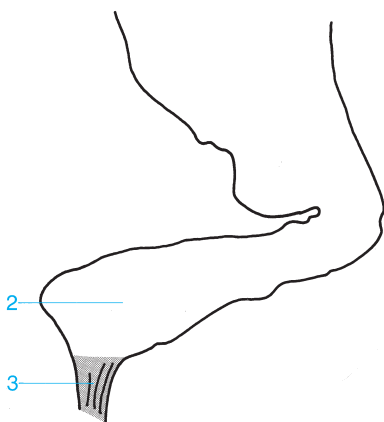
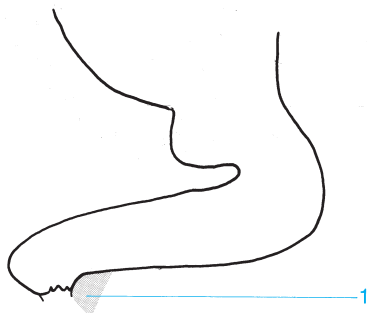




- 1 Rectosigmoid junction
- 2 Sacrum
- 3 Retrorectal space
- 4 Transverse rectal fold

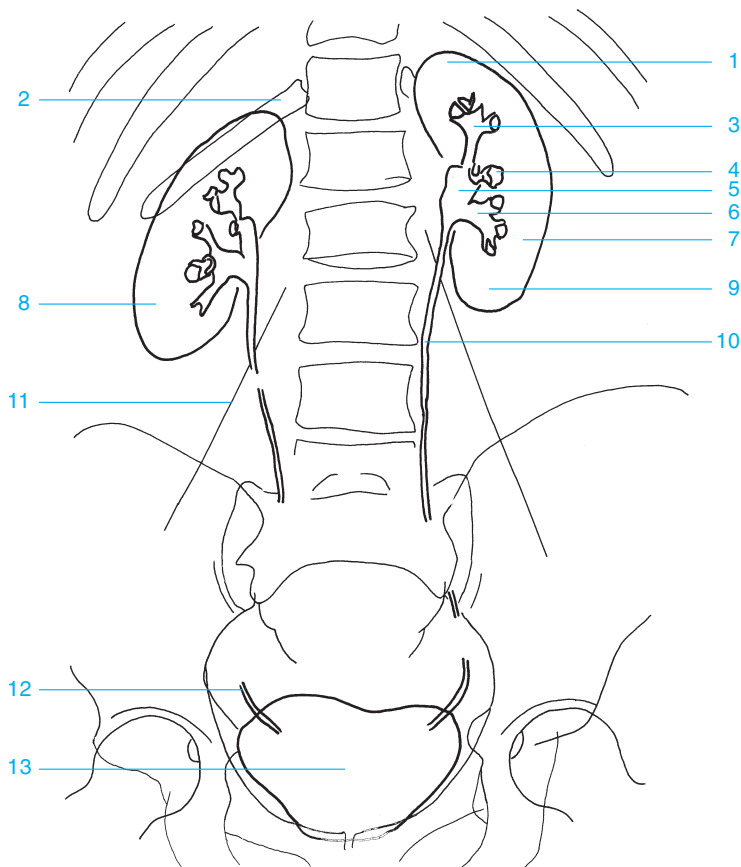
- 5 Femoral head
- 6 Rectal ampulla
- 7 Coccyx
- 8 Anorectal junction





- 1 Puborectalis
- 2 Rectal ampulla
- 3 Anal canal

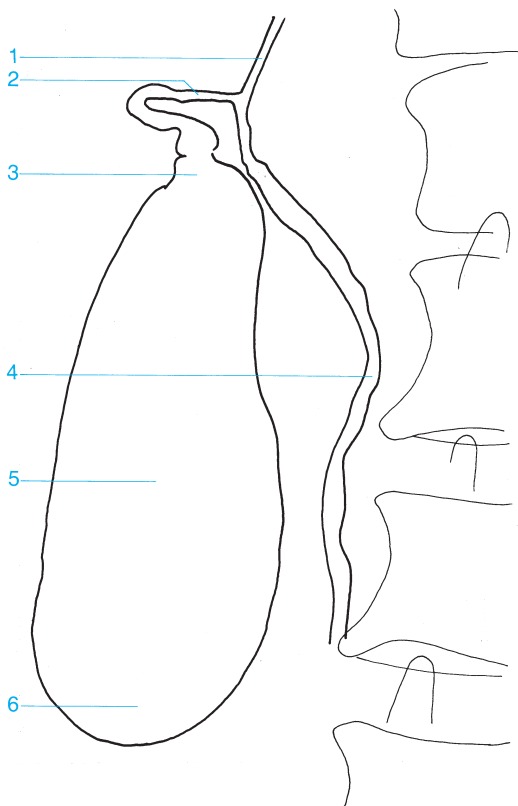




- 1 Superior pole of the kidney
- 2 Twelfth rib
- 3 Superior calyces
- 4 Middle calyces
- 5 Renal pelvis
- 6 Inferior calyces
- 7 Left kidney

- 8 Right kidney
- 9 Inferior pole of the kidney
- 10 Ureter
- 11 Margin of the psoas
- 12 Distal ureter
- 13 Urinary bladder

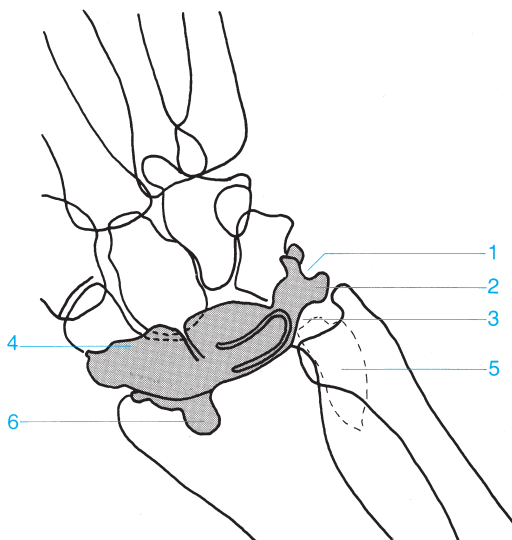




- 1 Common hepatic duct
- 2 Cystic duct
- 3 Neck of the gallbladder

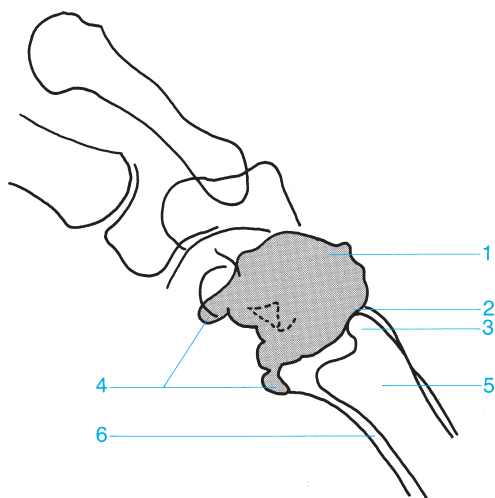
- 4 Common bile duct
- 5 Body of the gallbladder
- 6 Fundus of the gallbladder





- | | |
|-----------------------------|--------------------|
| 1 Meniscus | 4 Extensor recess |
| 2 Ulnar recess | 5 Sacciform recess |
| 3 Triangular fibrocartilage | 6 Flexor recess |

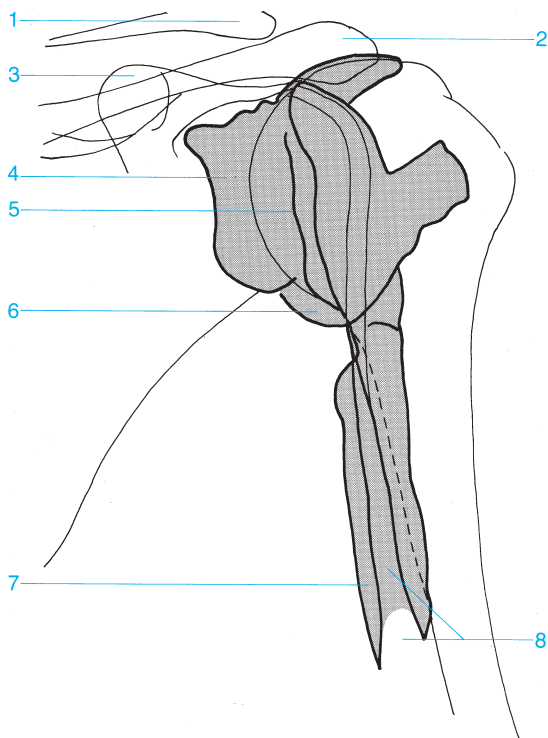




- 1 Extensor recess
- 2 Ulnar recess
- 3 Ulnar styloid

- 4 Flexor recess
- 5 Ulna
- 6 Radius

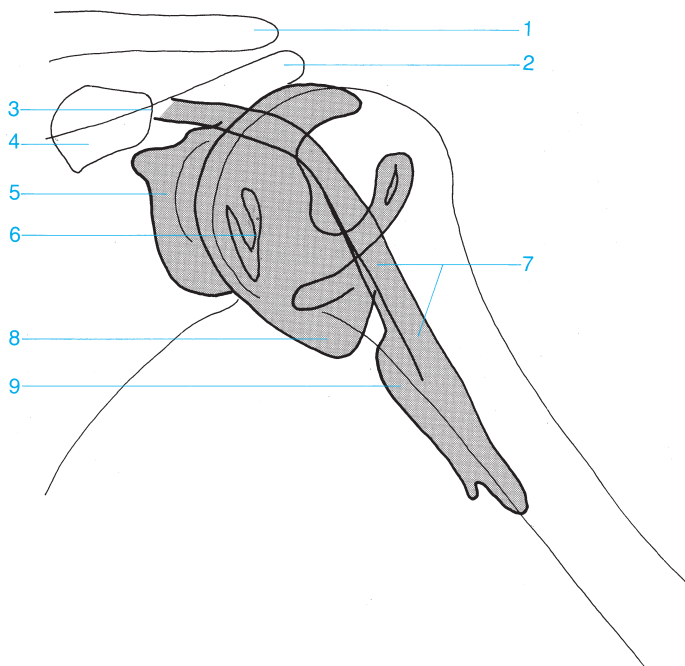




- 1 Clavicle
- 2 Acromion
- 3 Coracoid process
- 4 Subscapular bursa
- 5 Glenoid labrum

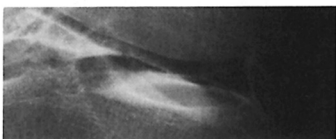
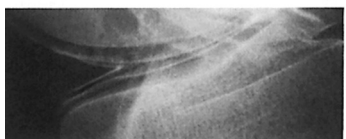
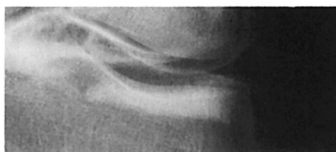
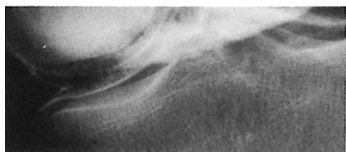
- 6 Axillary recess
- 7 Intertubercular sheath
- 8 Tendon sheath of the long head of the biceps

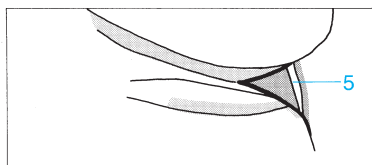
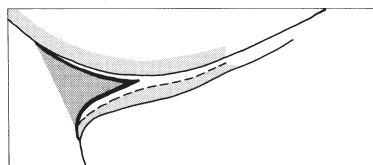
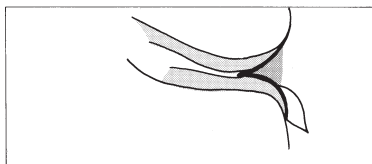
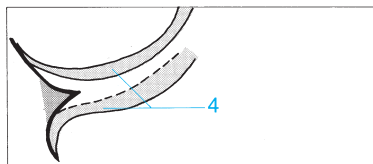
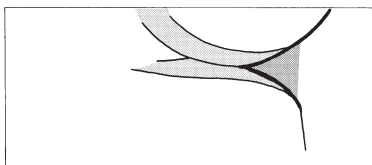
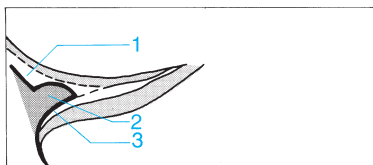




- 1 Clavicle
- 2 Acromion
- 3 Insertion of the biceps tendon
- 4 Coracoid process
- 5 Subscapular bursa

- 6 Glenoid labrum
- 7 Tendon sheath of the long head of the biceps
- 8 Axillary recess
- 9 Intertubercular sheath





- 1 Superior capsular recess
- 2 Meniscus
- 3 Inferior capsular recess

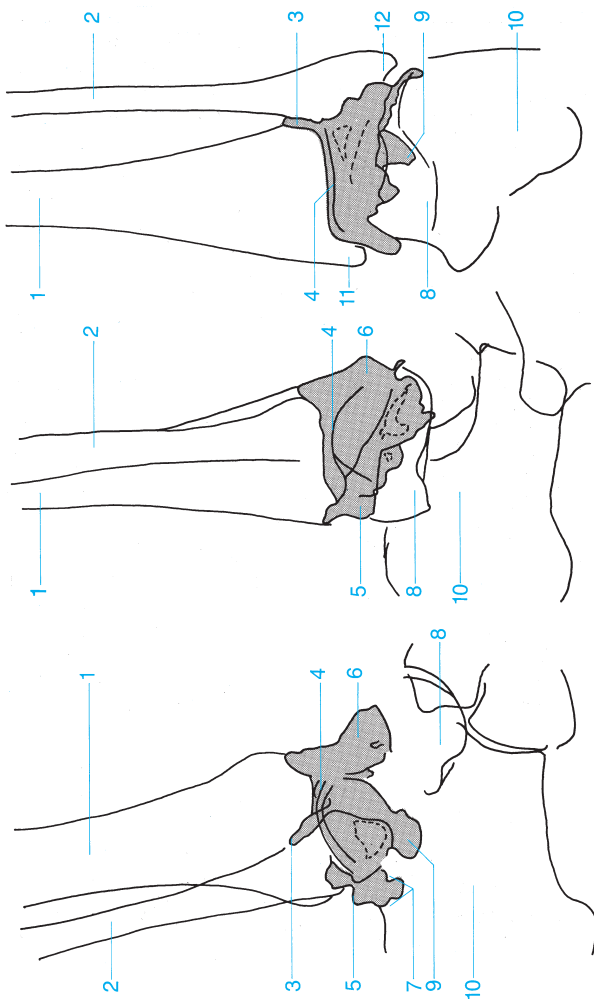
- 4 Cartilage
- 5 Popliteal bursa



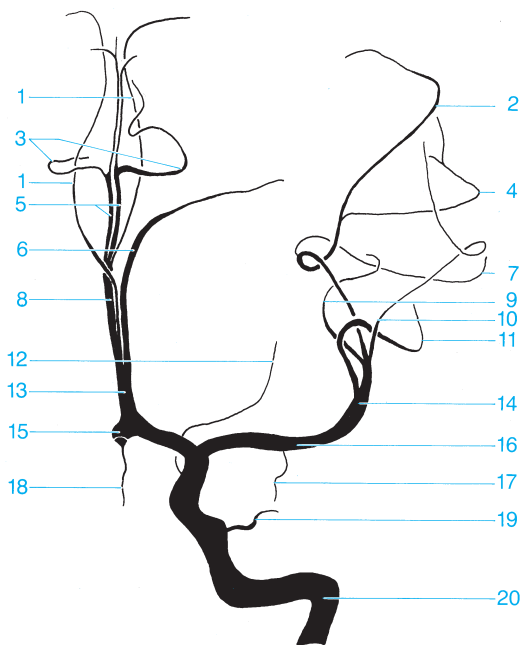
1 Tibia
2 Fibula
3 Tibiofibular joint
4 Joint space

5 Posterior recess
6 Anterior recess
7 Tendon recesses (anatomy varies)
8 Talus

9 Supracalcaneal recess
10 Calcaneus
11 Medial malleolus
12 Lateral malleolus

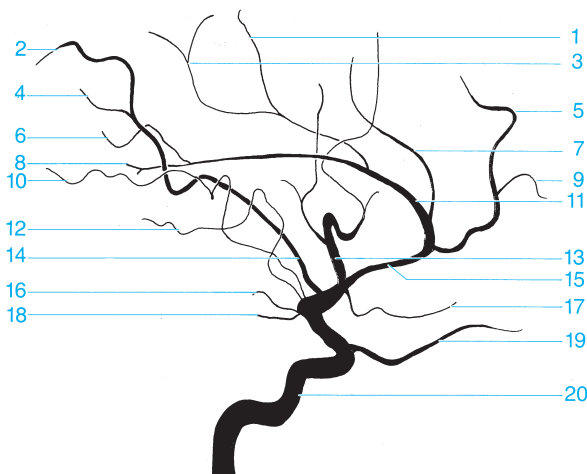




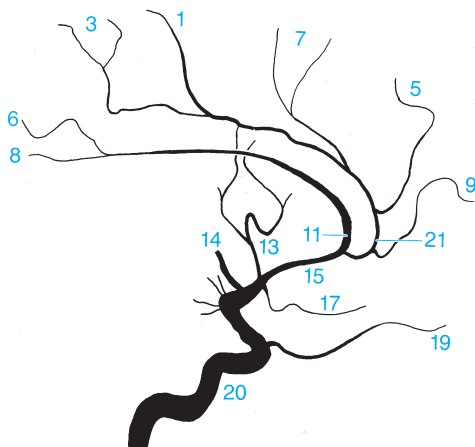


- | | |
|---|---|
| 1 Callosomarginal artery | 13 Second segment of the anterior cerebral artery (from here on referred to as the pericallosal artery) |
| 2 Anterior parietal artery | 14 Second segment of the middle cerebral artery |
| 3 Pericallosal artery | 15 Anterior communicating artery of the cerebrum (obscured by a vascular arch) |
| 4 Posterior parietal artery | 16 First segment of the middle cerebral artery (sphenoid part) |
| 5 Pericallosal artery (fourth segment of the anterior cerebral artery, superior to the corpus callosum) | 17 Temporal polar artery |
| 6 Frontal polar artery | 18 Frontal orbital artery |
| 7 Precentral sulcal artery | 19 Ophthalmic artery |
| 8 Third segment of the anterior cerebral artery or pericallosal artery | 20 Internal carotid artery |
| 9 Artery of the angular gyrus | |
| 10 Posterior temporal artery | |
| 11 Prefrontal arteries | |
| 12 Anterior choroidal artery | |

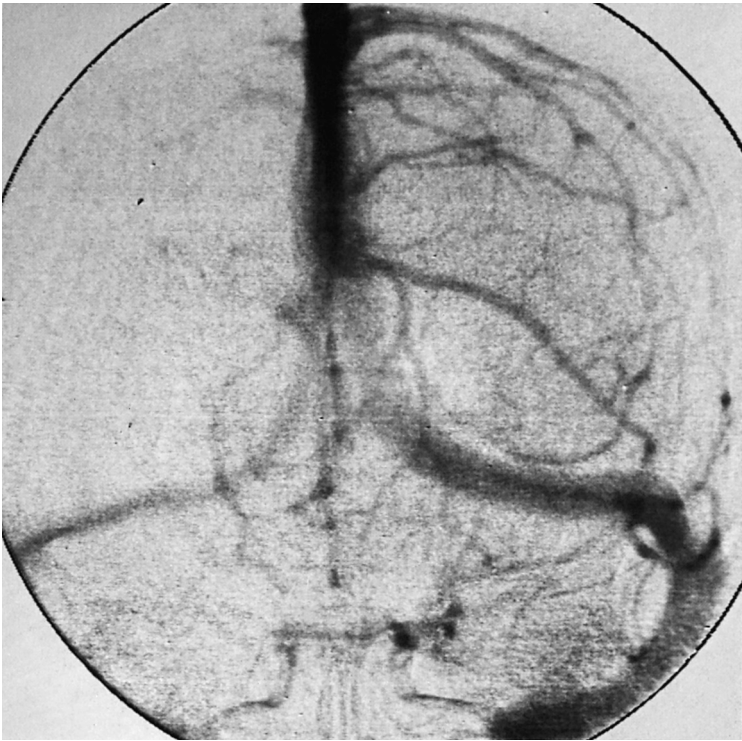


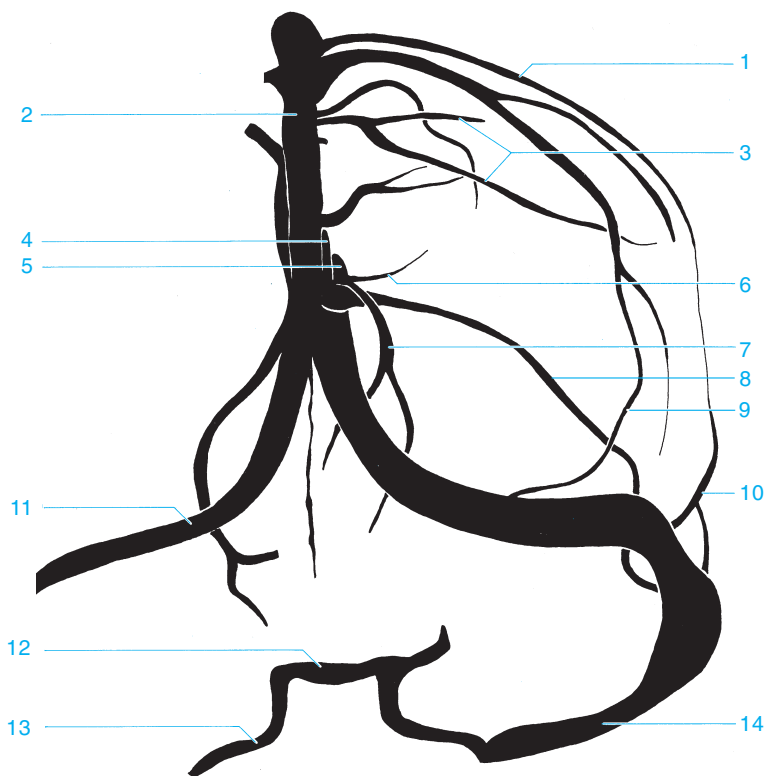


Variant (40%)



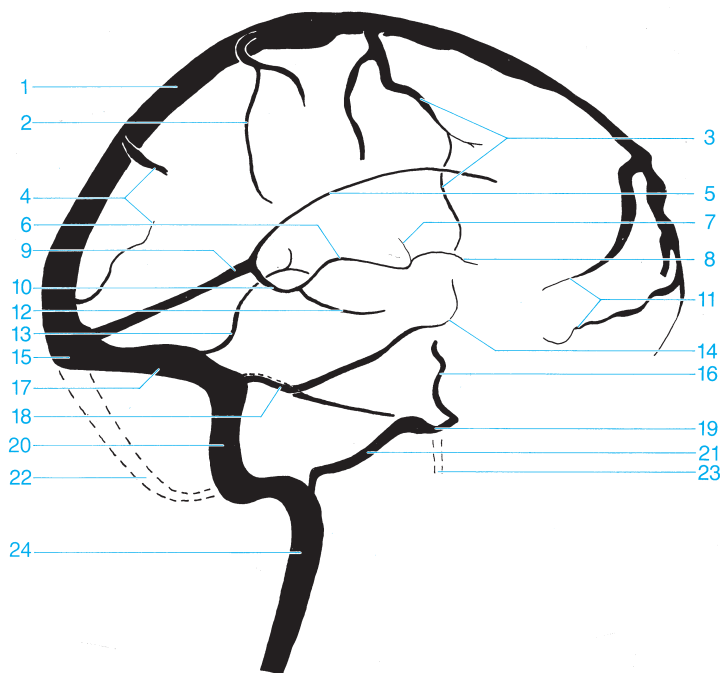
- | | |
|-------------------------------------|---|
| 1 Posterior internal frontal artery | 13 Prefrontal arteries |
| 2 Anterior parietal artery | 14 Second segment of the middle cerebral artery |
| 3 Paracentral artery | 15 Second segment of the anterior cerebral artery |
| 4 Posterior parietal artery | 16 Anterior choroidal artery |
| 5 Anterior internal frontal artery | 17 Frontal orbital artery |
| 6 Superior internal parietal artery | 18 Posterior communicating artery |
| 7 Medial internal frontal artery | 19 Ophthalmic artery |
| 8 Inferior internal parietal artery | 20 Internal carotid artery |
| 9 Frontal polar artery | 21 Callosomarginal artery |
| 10 Artery of the angular gyrus | |
| 11 Pericallosal artery | |
| 12 Posterior temporal artery | |



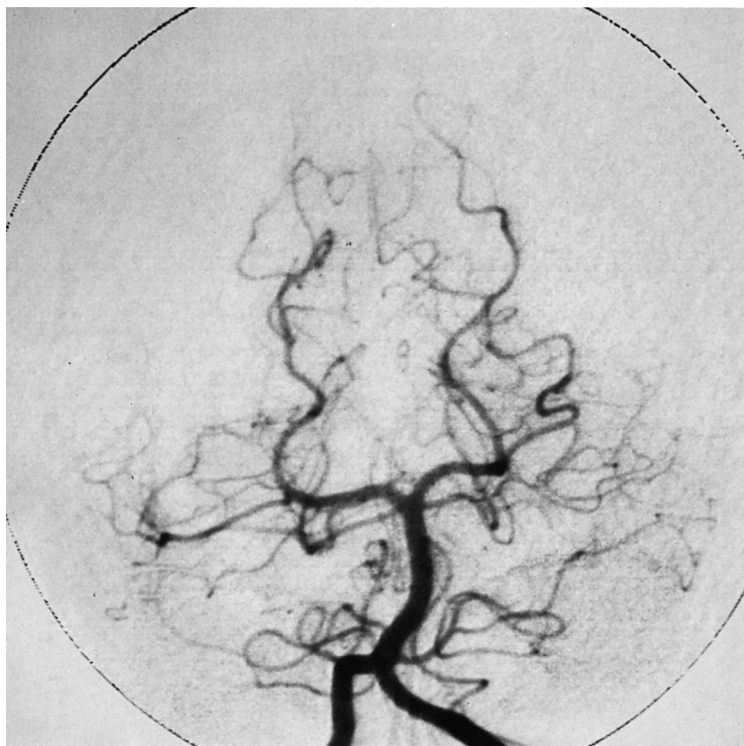


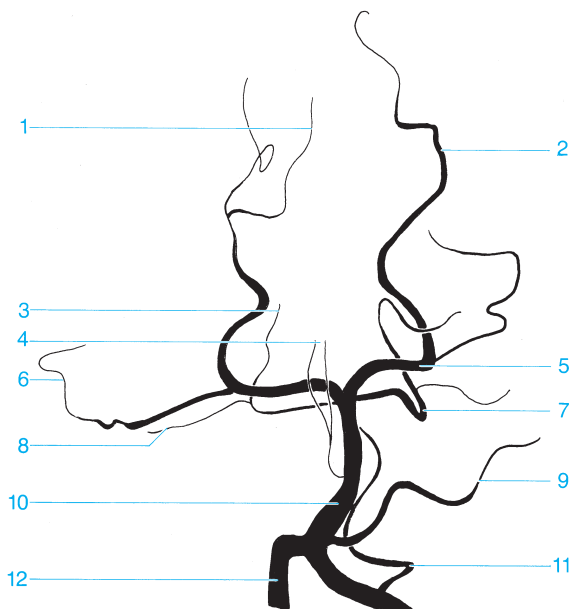
- | | |
|---|---------------------------------|
| 1 Parietal vein | 8 Frontal veins |
| 2 Superior sagittal sinus | 9 Veins of the fossa of Sylvius |
| 3 Superior anastomotic vein (vein of Trolard) | 10 Sphenoparietal sinus |
| 4 Great cerebral vein of Galen | 11 Transverse sinus |
| 5 Internal cerebral vein | 12 Intercavernous sinus |
| 6 Superior thalamostriate vein | 13 Inferior petrosal sinus |
| 7 Basal vein of Rosenthal | 14 Sigmoid sinus |





- | | |
|---|---|
| 1 Superior sagittal sinus | 14 Veins of the fossa of Sylvius |
| 2 Parietal vein | 15 Confluence of sinuses |
| 3 Superior anastomotic vein (vein of Trolard) | 16 Cavernous sinus (anterior drainage) |
| 4 Occipital veins | 17 Transverse sinus |
| 5 Inferior sagittal sinus | 18 Superior petrosal sinus |
| 6 Internal cerebral vein | 19 Cavernous sinus (posterior drainage) |
| 7 Superior thalamostriate veins | 20 Sigmoid sinus |
| 8 Vein of the septum pellucidum | 21 Inferior petrosal sinus |
| 9 Straight sinus | 22 Occipital sinus |
| 10 Great cerebral vein of Galen | 23 Pterygoid plexus |
| 11 Ascending frontal veins | 24 Internal jugular vein |
| 12 Basal vein of Rosenthal | |
| 13 Inferior anastomotic vein (vein of Labbé) | |

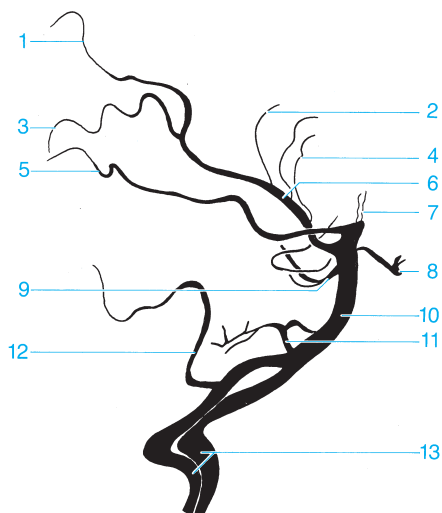




- 1 Calcarine branch of the medial occipital artery
- 2 Parieto-occipital artery
- 3 Vermis branch
- 4 Thalamoperforate arteries
- 5 Posterior cerebral artery
- 6 Temporo-occipital artery

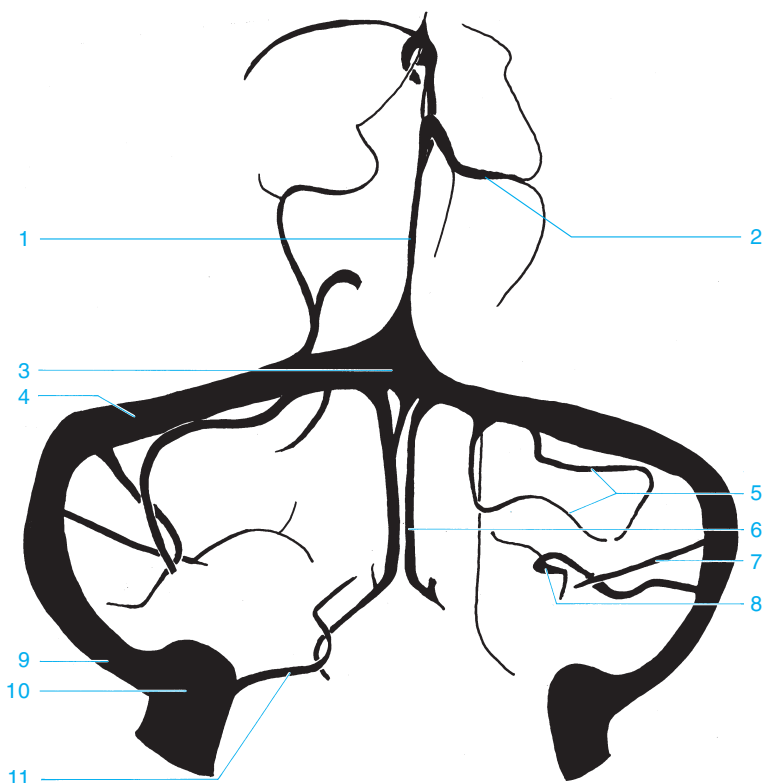
- 7 Superior cerebellar artery
- 8 Marginal artery
- 9 Anterior inferior cerebellar artery
- 10 Basilar artery
- 11 Posterior inferior cerebellar artery
- 12 Vertebral artery





- | | |
|---|---|
| 1 Parieto-occipital artery | 7 Branches of the posterior cerebral artery to the thalamus |
| 2 Dorsal corpus callosal branch | 8 Posterior communicating artery |
| 3 Calcarine branch of the medial occipital artery | 9 Superior cerebellar artery |
| 4 Choroidal arteries (posterior, medial, and lateral) | 10 Basilar artery |
| 5 Temporo-occipital artery | 11 Anterior inferior cerebellar artery |
| 6 Posterior cerebral artery | 12 Posterior inferior cerebellar artery |
| | 13 Vertebral arteries |

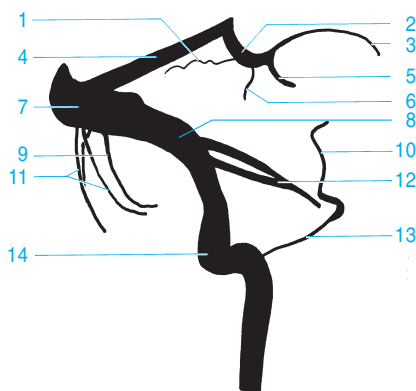




- 1 Straight sinus
- 2 Superior cerebral veins
- 3 Confluence of sinuses
- 4 Transverse sinus
- 5 Veins of the cerebellar hemisphere
- 6 Inferior vein of the vermis

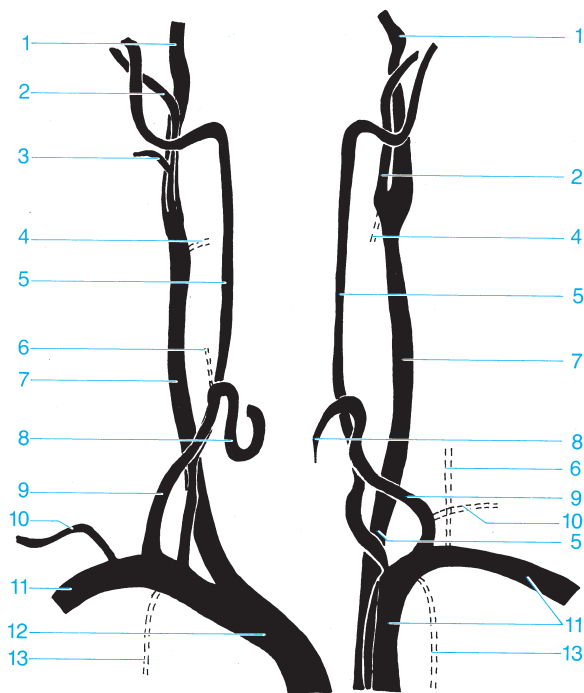
- 7 Inferior vein of the cerebellar hemisphere
- 8 Petrosal vein (entering the superior petrosal sinus)
- 9 Sigmoid sinus
- 10 Bulb of the jugular vein
- 11 Inferior petrosal sinus





- | | |
|---|--|
| 1 Superior veins of the cerebellar hemisphere | 9 Inferior veins of the cerebellar hemisphere |
| 2 Great cerebral vein of Galen | 10 Cavernous sinus |
| 3 Internal cerebral vein | 11 Inferior veins of the cerebellar hemisphere |
| 4 Straight sinus | 12 Superior petrosal sinus |
| 5 Basal vein of Rosenthal | 13 Inferior petrosal sinus |
| 6 Precentral cerebellar vein | 14 Sigmoid sinus |
| 7 Confluence of sinuses | |
| 8 Transverse sinus | |

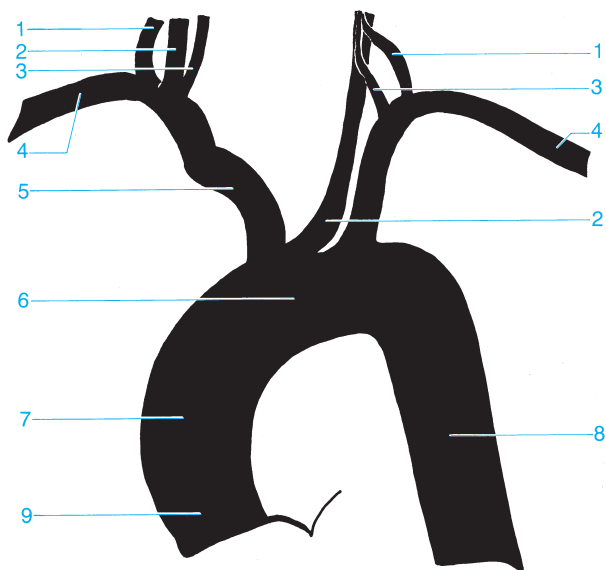




- 1 Internal carotid artery
- 2 External carotid artery
- 3 Facial artery
- 4 Superior thyroid artery
- 5 Vertebral artery
- 6 Ascending cervical artery
- 7 Common carotid artery

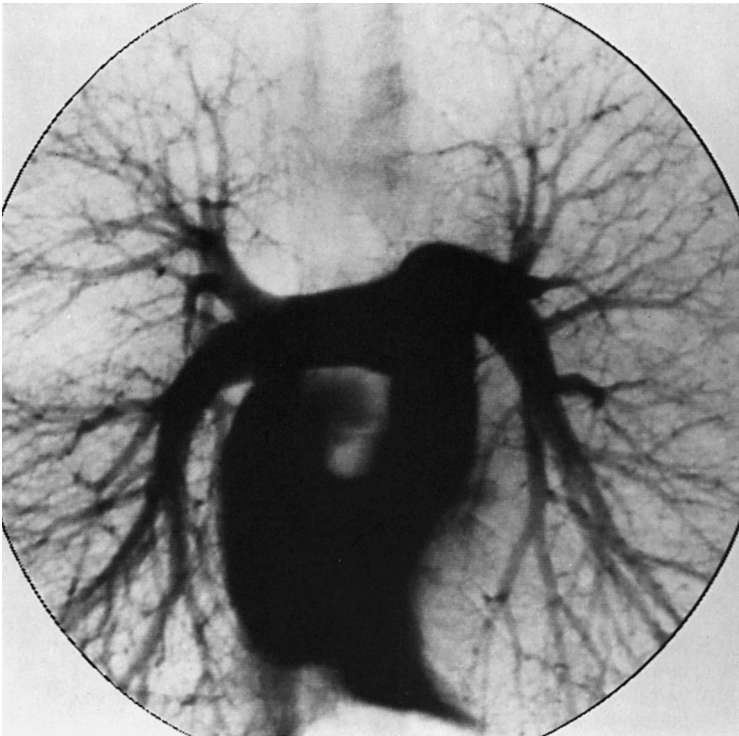
- 8 Inferior thyroid artery
- 9 Thyrocervical trunk
- 10 Suprascapular artery
- 11 Subclavian artery
- 12 Brachiocephalic trunk
- 13 Internal thoracic artery

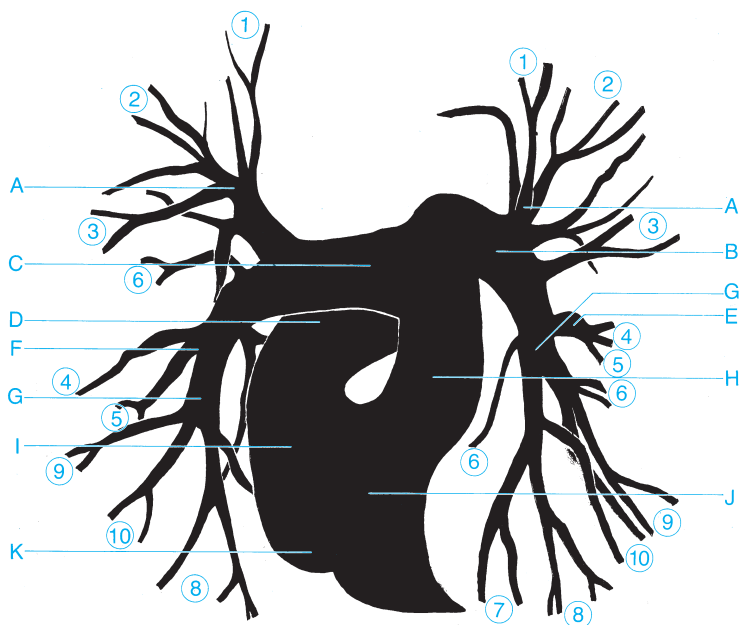




- 1 Thyrocervical trunk
- 2 Common carotid artery
- 3 Vertebral artery
- 4 Subclavian artery
- 5 Brachiocephalic trunk

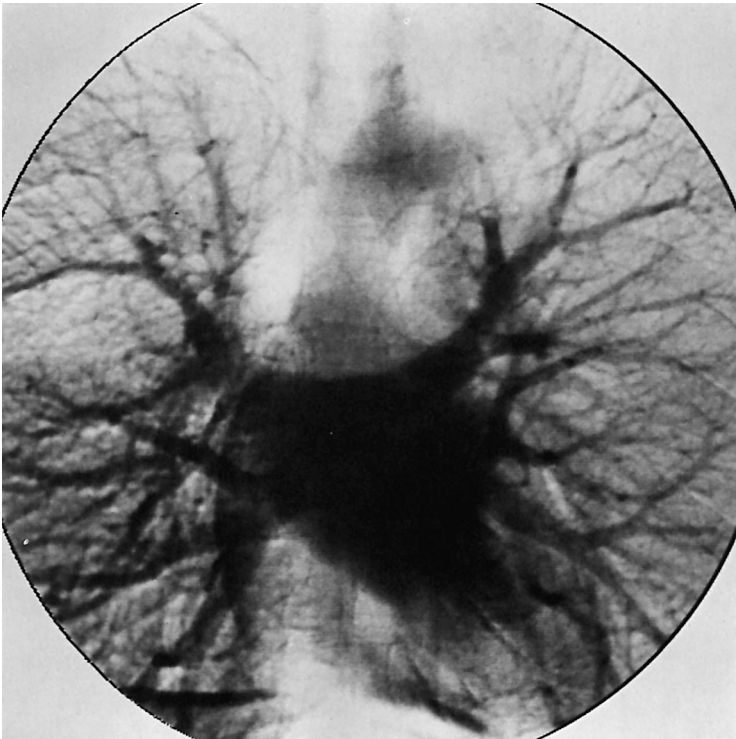
- 6 Aortic arch
- 7 Ascending aorta
- 8 Descending aorta
- 9 Aortic bulb

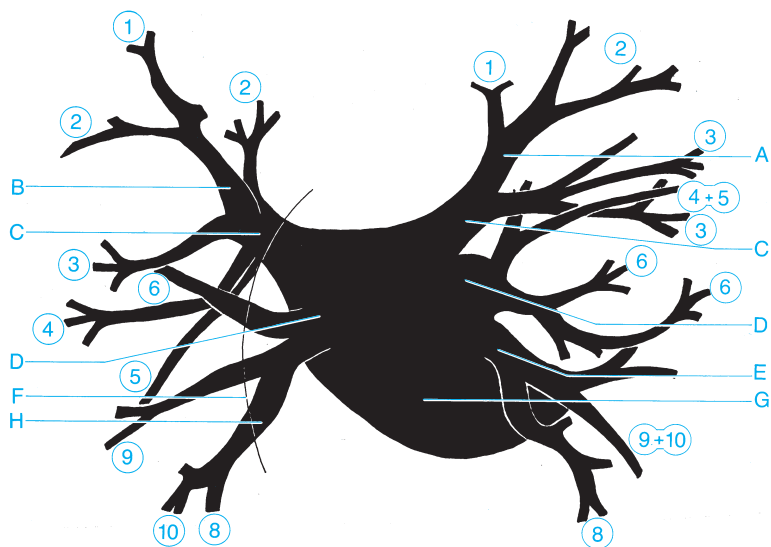




○ = Segmental arteries 1-10

- | | |
|--|--|
| A Apical branch | G Inferior lobar branch of the pulmonary artery |
| B Left pulmonary artery | H Pulmonary trunk |
| C Right pulmonary artery | I Right atrium |
| D Superior vena cava | J Right ventricle |
| E Lingular branch | K Inferior vena cava |
| F Middle lobar branch of the pulmonary artery | |

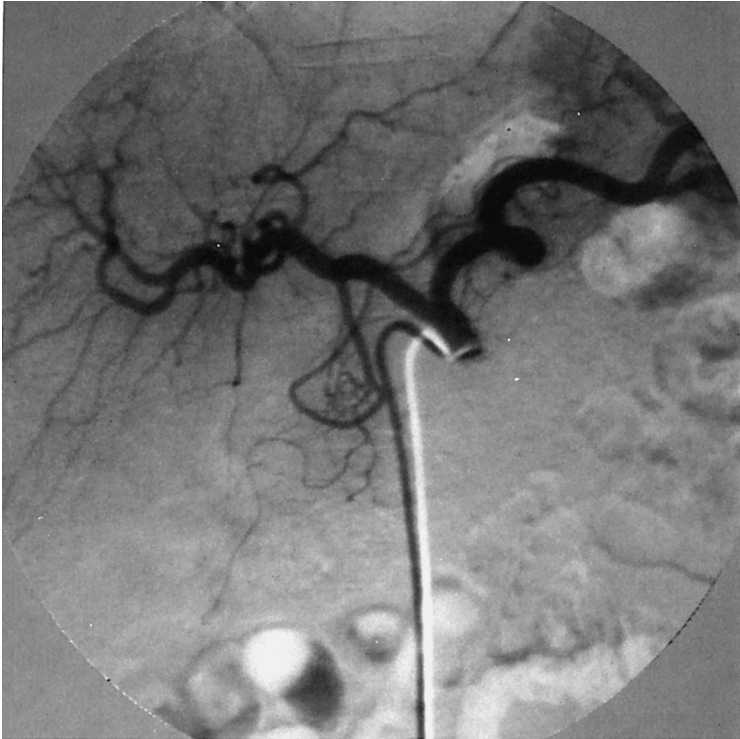


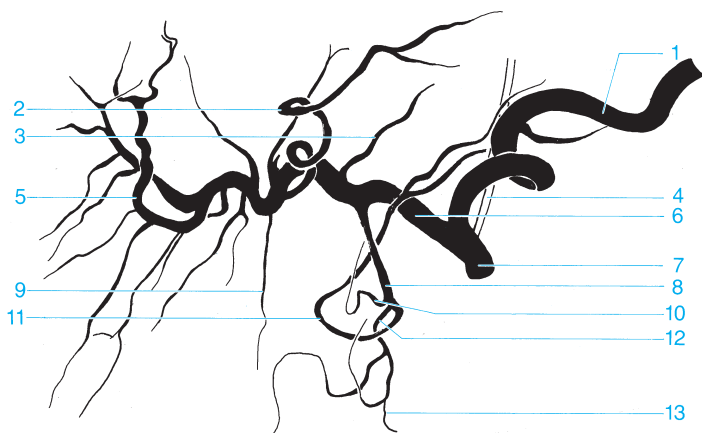


○ = Segmental arteries 1-10

A Apicoposterior branch
B Apical branch
C Inferior pulmonary vein
D Superior pulmonary vein

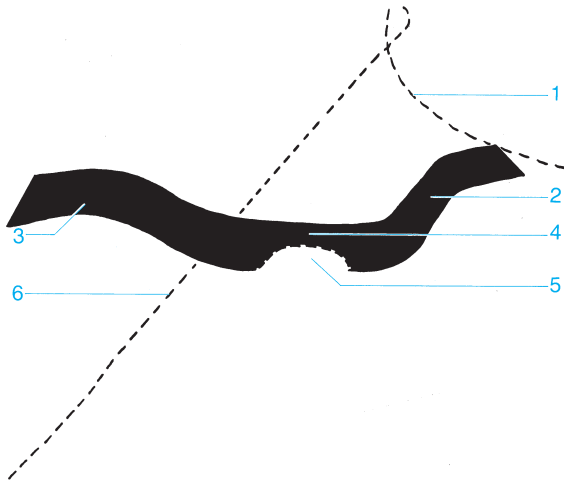
E Common basal vein
F Right atrium
G Left atrium
H Inferior basal vein



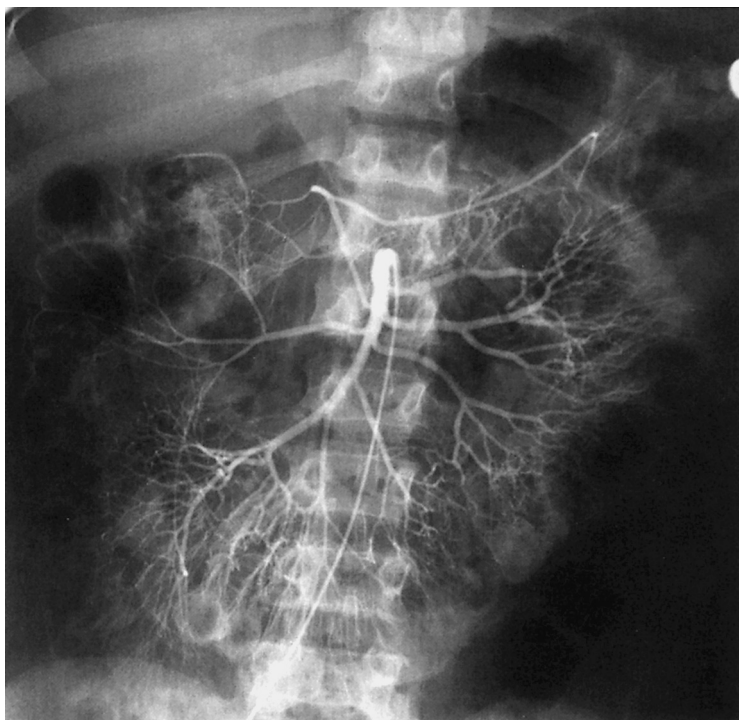


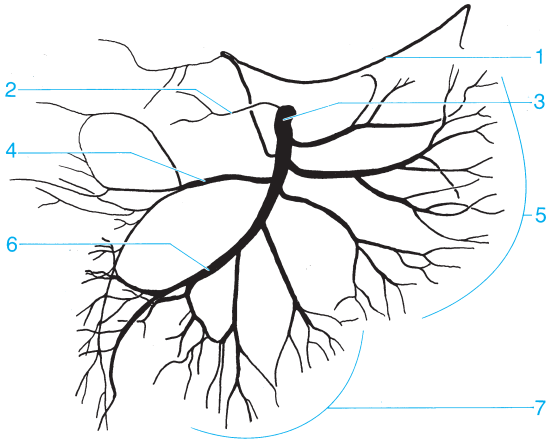
- | | |
|---|--|
| 1 Splenic artery | 8 Gastroduodenal artery |
| 2 Left branch of the proper hepatic artery | 9 Cystic artery |
| 3 Right gastric artery | 10 superior supraduodenal artery |
| 4 Left gastric artery | 11 Right gastroepiploic artery |
| 5 Right branch of the proper hepatic artery | 12 Superior pancreaticoduodenal artery |
| 6 Common hepatic artery | 13 Inferior pancreaticoduodenal artery (anastomosis with the superior mesenteric artery) |
| 7 Celiac trunk | |



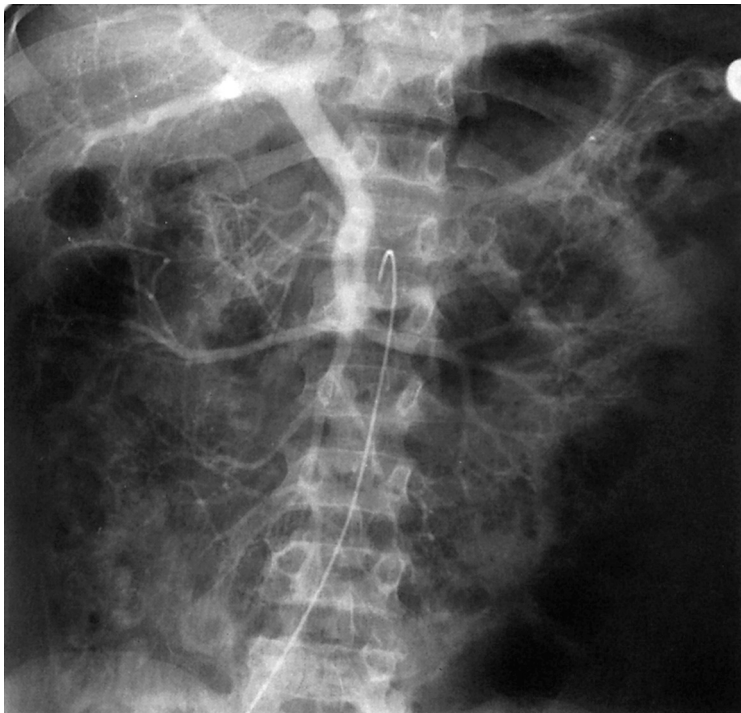


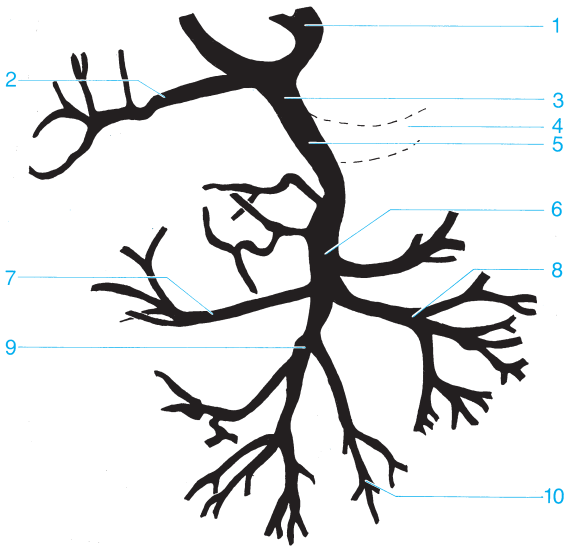
- | | |
|----------------|-----------------------------------|
| 1 Spleen | 4 Confluence |
| 2 Splenic vein | 5 Junction of the mesenteric vein |
| 3 Portal vein | 6 Liver |



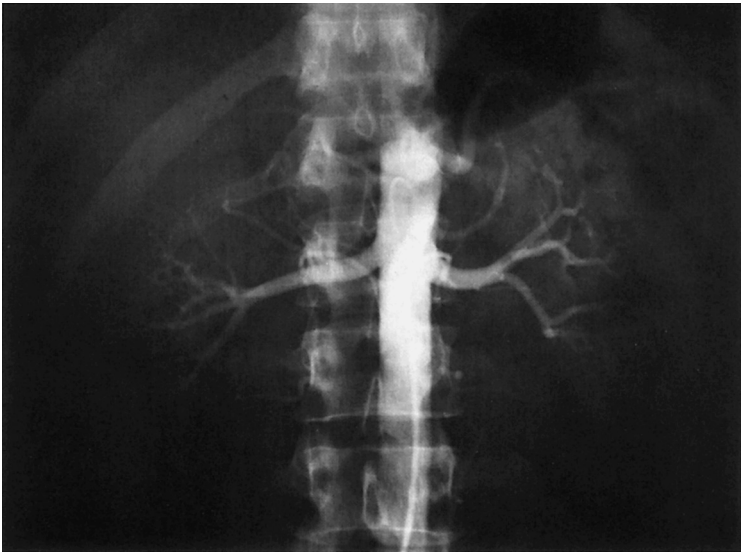


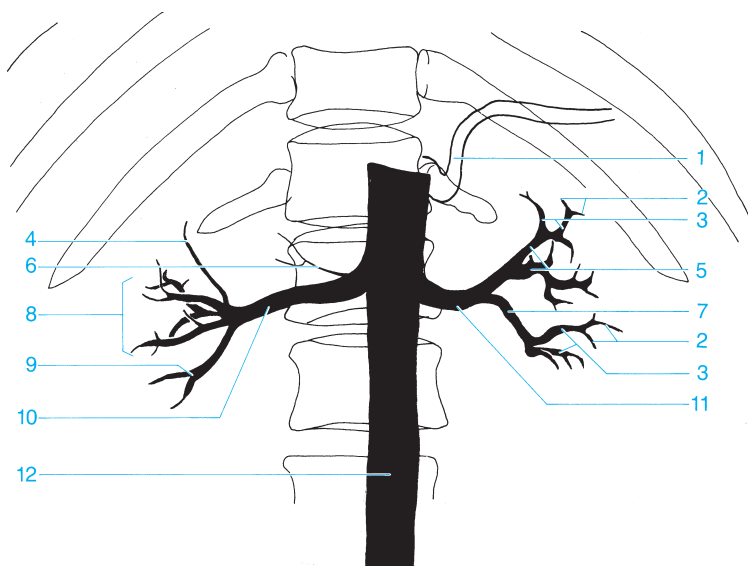
- | | |
|---------------------------------------|--------------------|
| 1 Middle colic artery | 5 Jejunal arteries |
| 2 Inferior pancreaticoduodenal artery | 6 Ileocolic artery |
| 3 Superior mesenteric artery | 7 Ileal arteries |
| 4 Right colic artery | |



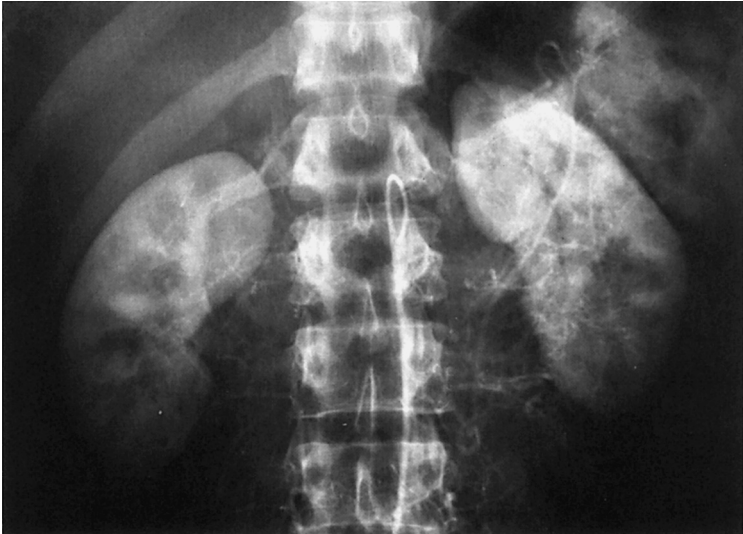


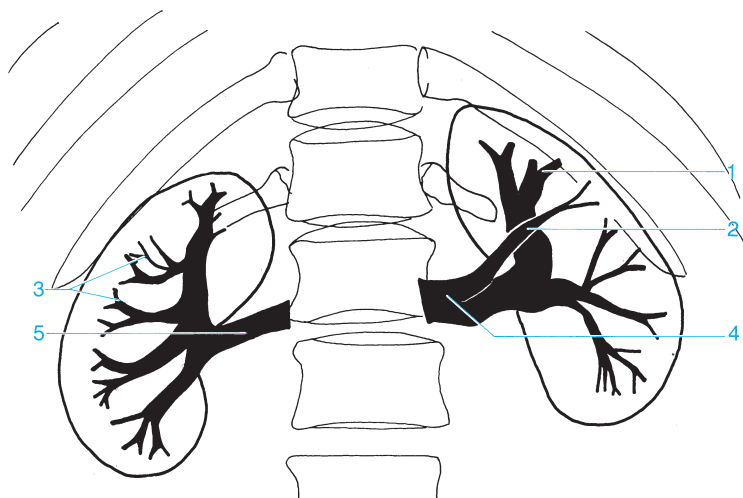
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|-----------------------------------|----------------------------|
| 1 Left branch of the portal vein | 6 Superior mesenteric vein |
| 2 Right branch of the portal vein | 7 Right colic vein |
| 3 Portal vein | 8 Jejunal veins |
| 4 Splenic vein | 9 Ileocolic vein |
| 5 Confluence | 10 Ileal veins |



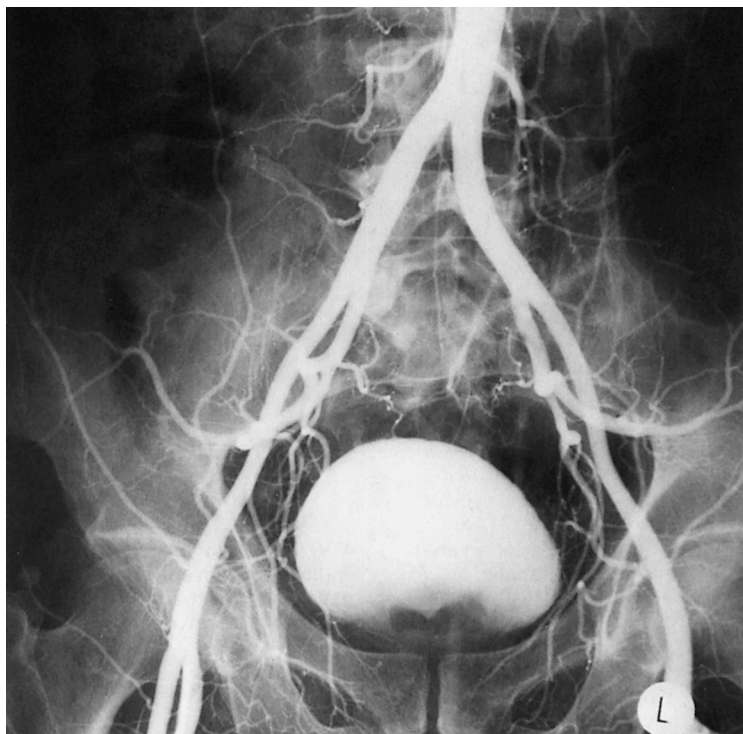


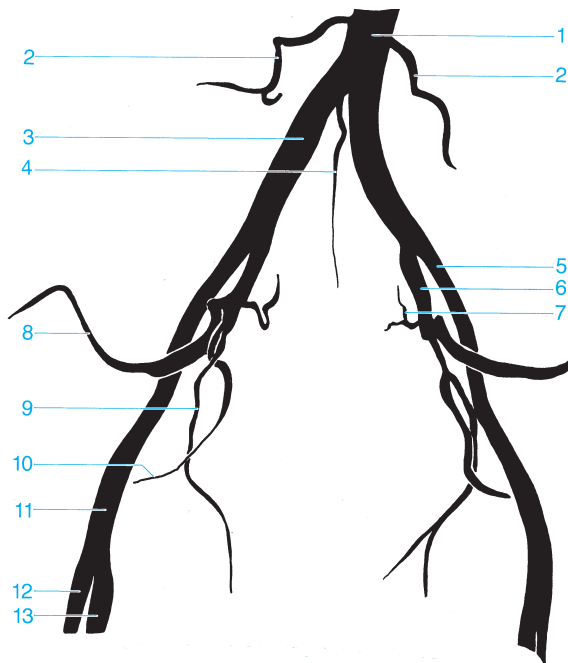
- | | |
|--|---|
| 1 Splenic artery | 7 Segmental arteries (posterior branch) |
| 2 Arcuate arteries | 8 Middle segmental artery |
| 3 Interlobular arteries | 9 Inferior segmental artery |
| 4 Superior segmental artery | 10 Right renal artery |
| 5 Segmental arteries (anterior branch) | 11 Left renal artery |
| 6 Inferior adrenal artery | 12 Abdominal aorta |





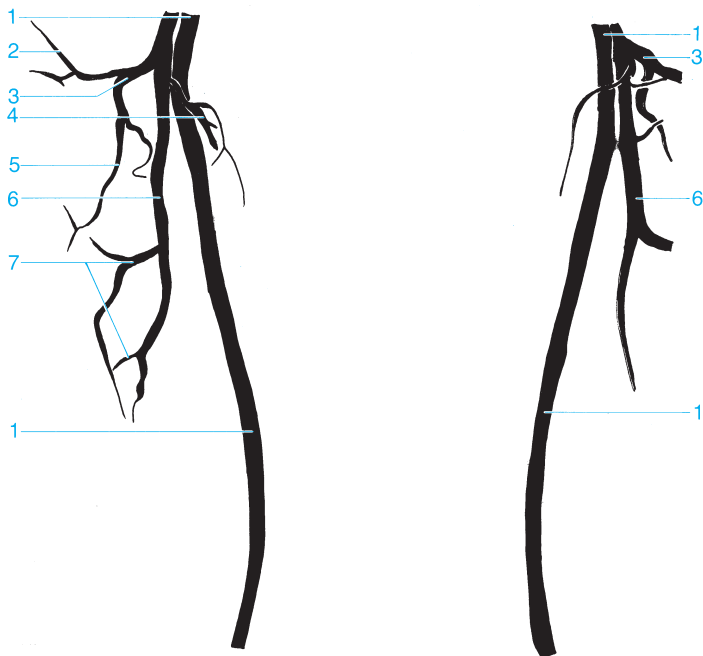
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|-------------------------------------|--------------------|
| 1 Interlobular vein | 4 Left renal vein |
| 2 Superior branch of the renal vein | 5 Right renal vein |
| 3 Arcuate vein | |





- | | |
|-------------------------|-------------------------------|
| 1 Abdominal aorta | 8 Superior gluteal artery |
| 2 Lumbar artery | 9 Obturator artery |
| 3 Common iliac artery | 10 Inferior gluteal artery |
| 4 Median sacral artery | 11 Common femoral artery |
| 5 External iliac artery | 12 Deep femoral artery |
| 6 Internal iliac artery | 13 Superficial femoral artery |
| 7 Lateral sacral artery | |

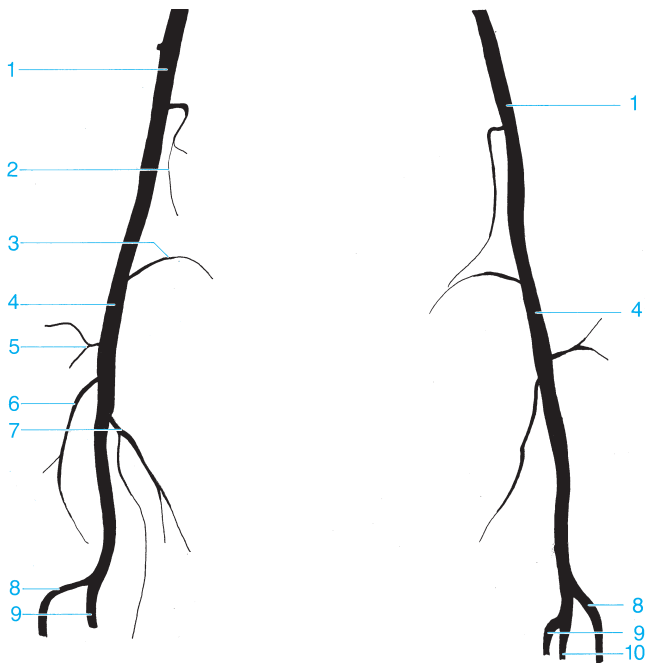




- 1 Superficial femoral artery
- 2 Ascending branch of the lateral femoral circumflex artery
- 3 Lateral femoral circumflex artery
- 4 Medial femoral circumflex artery

- 5 Descending branch of the lateral femoral circumflex artery
- 6 Deep femoral artery
- 7 Perforating artery

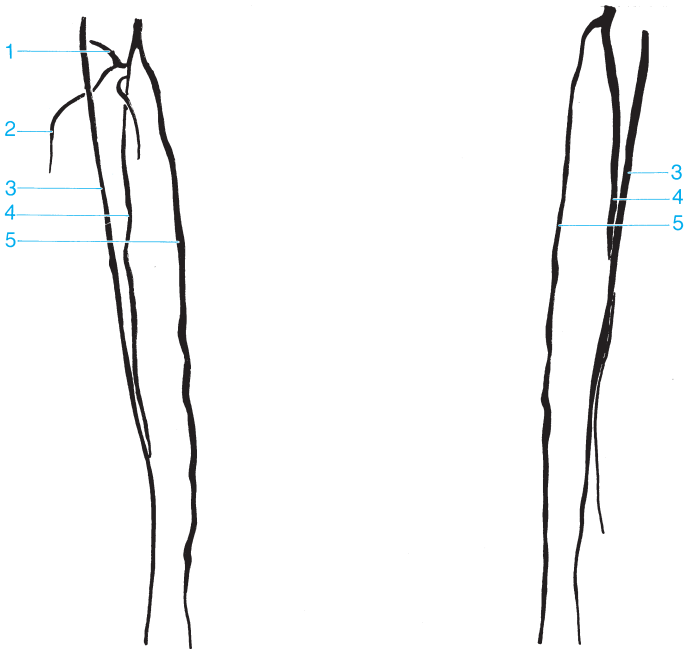




- 1 Superficial femoral artery
- 2 Descending genicular artery
- 3 Superior medial genicular artery
- 4 Popliteal artery
- 5 Superior lateral genicular artery

- 6 Middle genicular artery
- 7 Inferior medial genicular artery
- 8 Anterior tibial artery
- 9 Posterior tibial artery
- 10 Peroneal artery

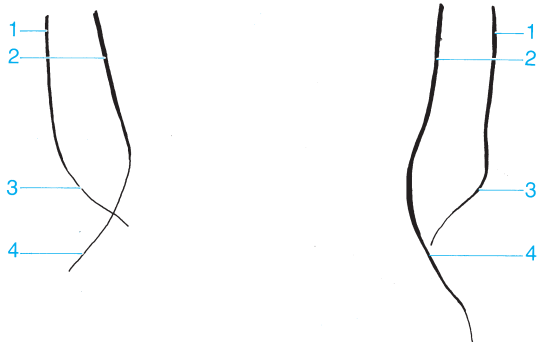




- 1 Circumflex fibular artery
- 2 Muscular branch
- 3 Anterior tibial artery

- 4 Peroneal artery
- 5 Posterior tibial artery

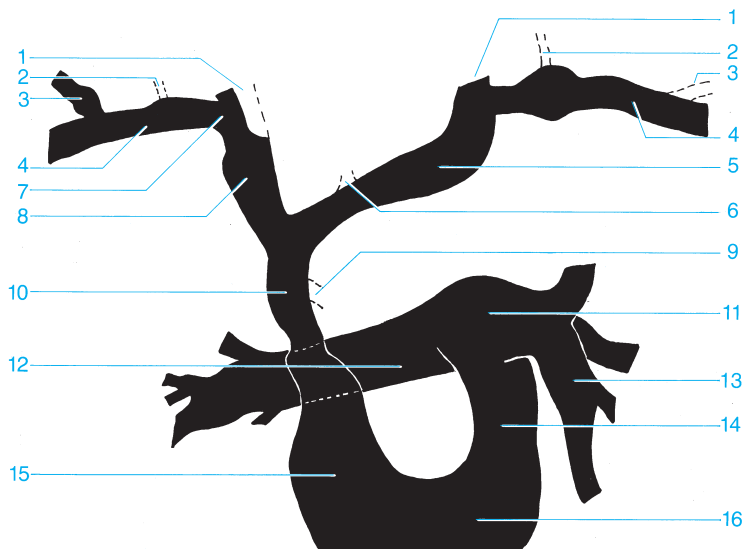




- 1** Anterior tibial artery
- 2** Posterior tibial artery

- 3** Dorsalis pedis artery
- 4** Plantar artery

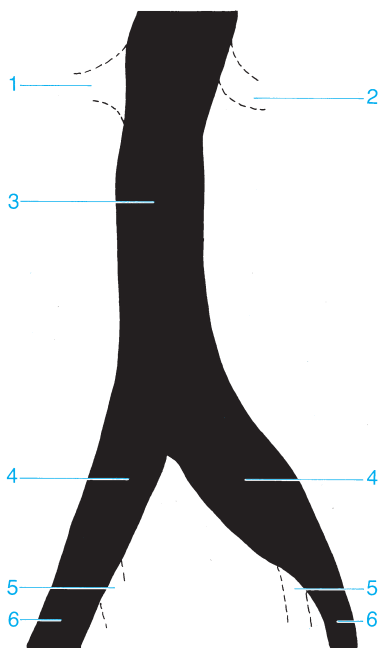




- 1 Internal jugular vein
- 2 External jugular vein
- 3 Cephalic vein
- 4 Subclavian vein
- 5 Left brachiocephalic vein
- 6 Inferior thyroid vein
- 7 Venous angle
- 8 Right brachiocephalic vein

- 9 Azygos vein
- 10 Superior vena cava
- 11 Pulmonary trunk
- 12 Right pulmonary artery
- 13 Left pulmonary artery
- 14 Infundibulum
- 15 Right atrium
- 16 Right ventricle

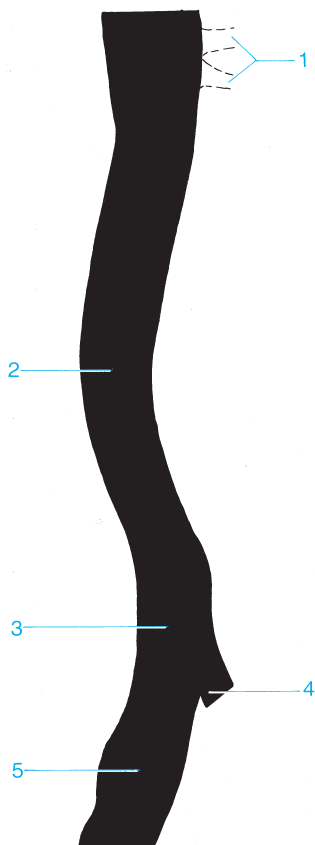




- 1 Right renal vein
- 2 Left renal vein
- 3 Inferior vena cava

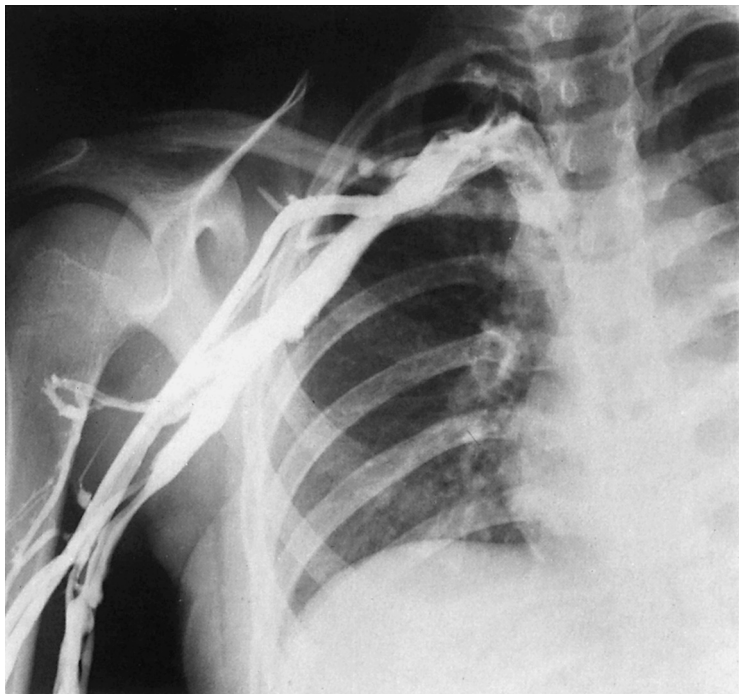
- 4 Common iliac vein
- 5 Internal iliac vein
- 6 External iliac vein

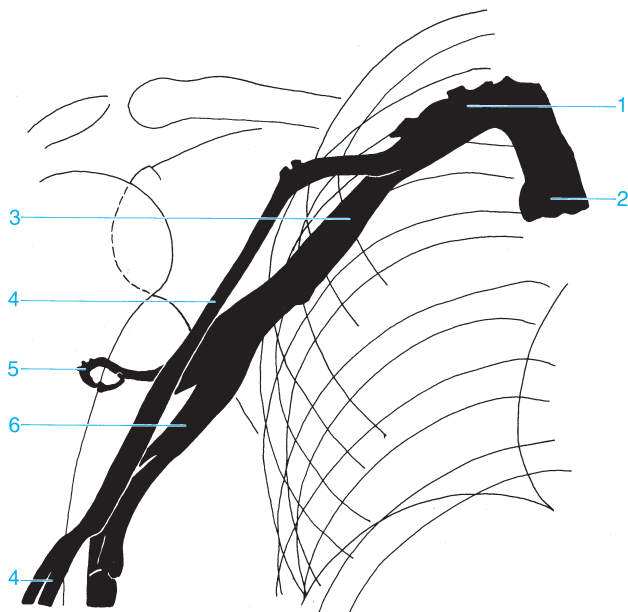




- 1 Renal veins
- 2 Inferior vena cava
- 3 Common iliac vein

- 4 Internal iliac vein
- 5 External iliac vein

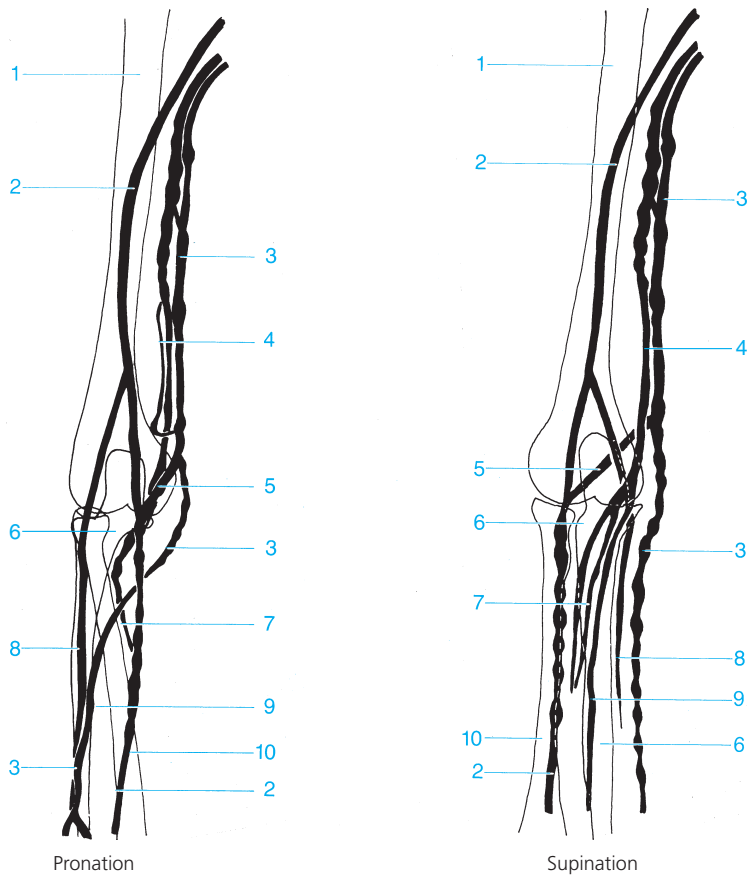




- 1 Subclavian vein
- 2 Superior vena cava
- 3 Axillary vein

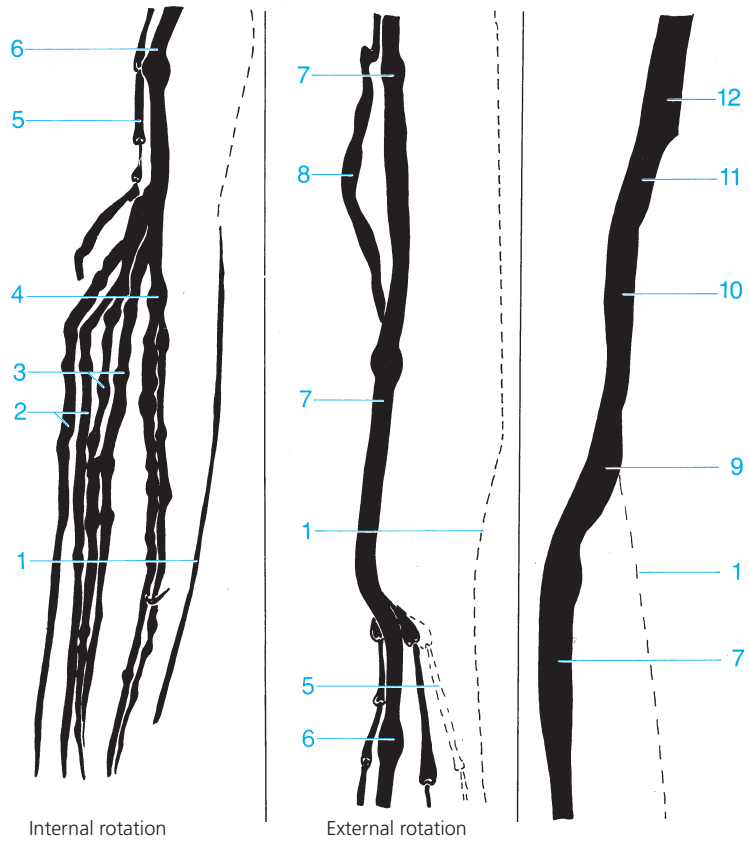
- 4 Cephalic vein
- 5 Deep veins of the arm
- 6 Brachial veins





- | | |
|-----------------------|----------------------------|
| 1 Humerus | 6 Ulna |
| 2 Cephalic vein | 7 Radial veins |
| 3 Basilic vein | 8 Ulnar veins |
| 4 Brachial vein | 9 Median antebrachial vein |
| 5 Median cubital vein | 10 Radius |



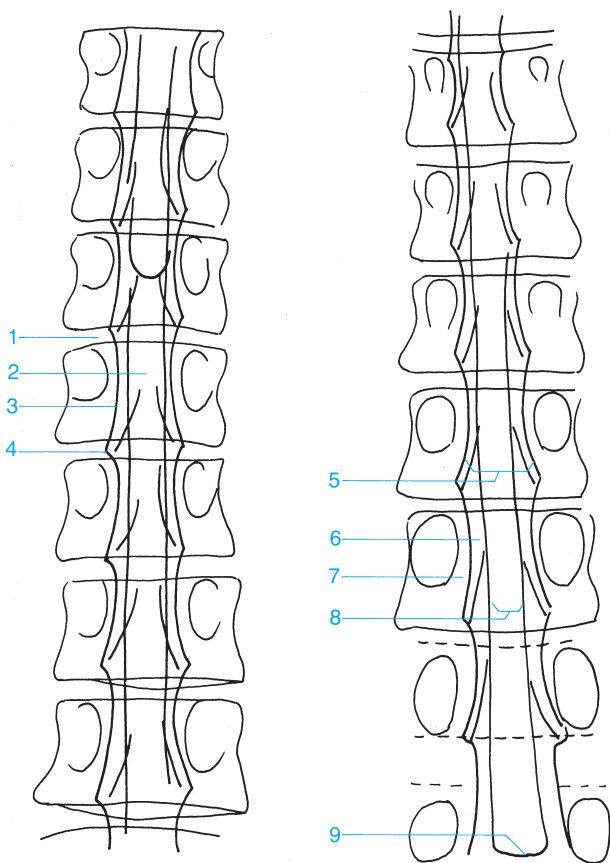


- 1 Great saphenous vein
- 2 Anterior tibial veins
- 3 Peroneal veins
- 4 Posterior tibial veins
- 5 Small saphenous vein
- 6 Popliteal vein

- 7 Superficial femoral vein
- 8 Deep femoral vein
- 9 Femoral vein
- 10 External iliac vein
- 11 Common iliac vein
- 12 Inferior vena cava

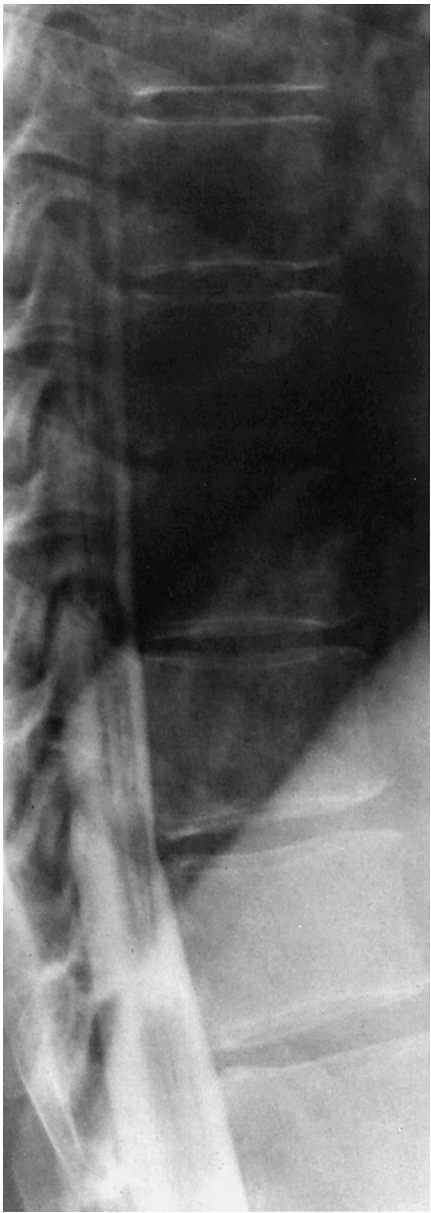
Special Studies

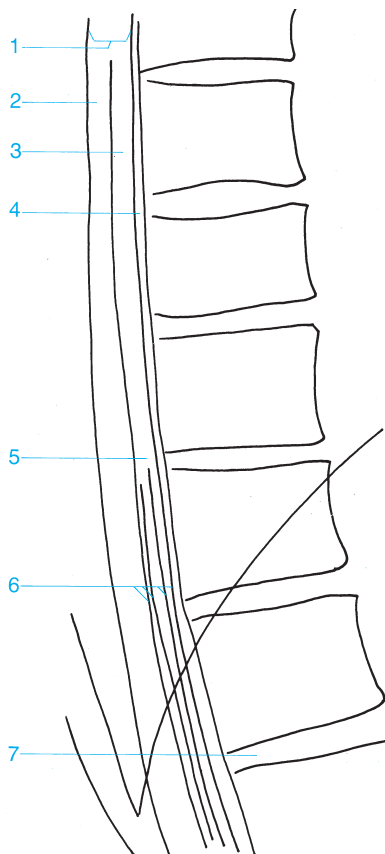




- 1 Intervertebral disk
- 2 Spinal cord
- 3 Lateral margin of the dural sac
- 4 Nerve root sheath
- 5 Intradural space

- 6 Lateral subarachnoid space
- 7 Extradural space
- 8 Intramedullary region
- 9 Medullary cone

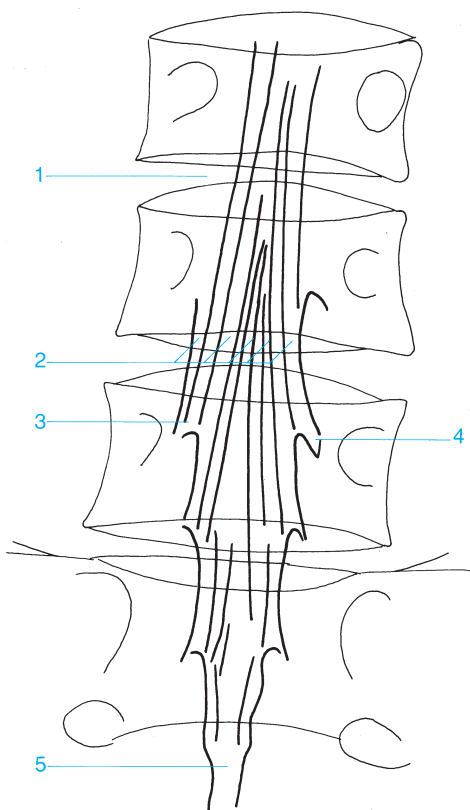




- 1 Dural sac
- 2 Posterior subarachnoid space
- 3 Spinal cord
- 4 Anterior subarachnoid space

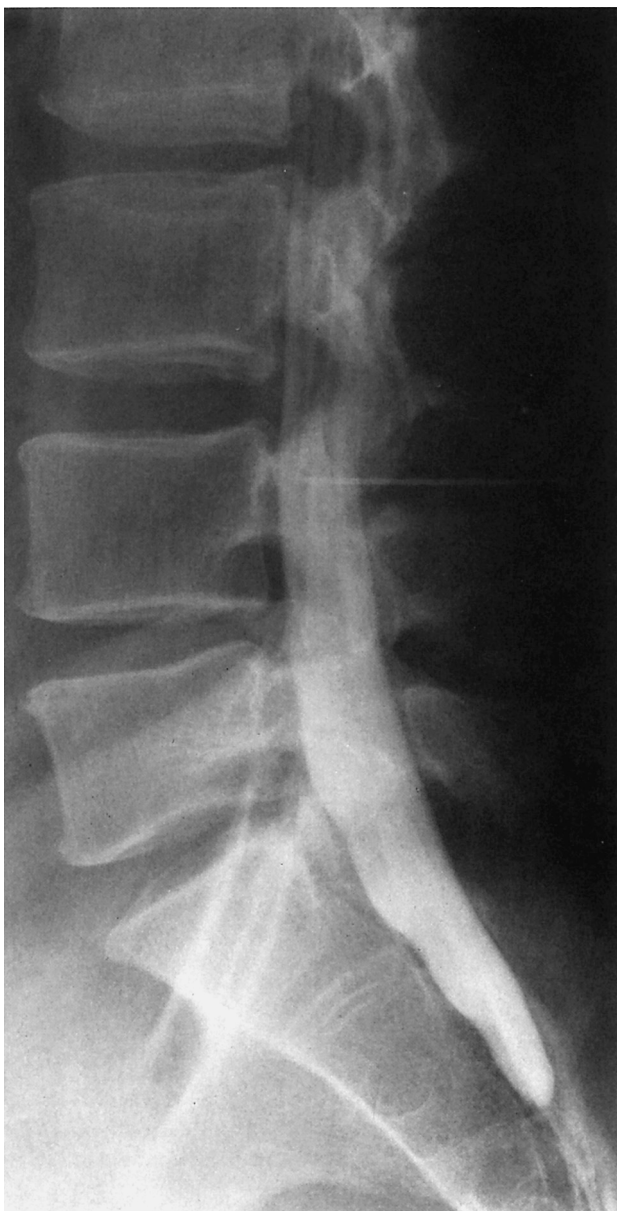
- 5 Medullary cone
- 6 Cauda equina
- 7 Intervertebral disk

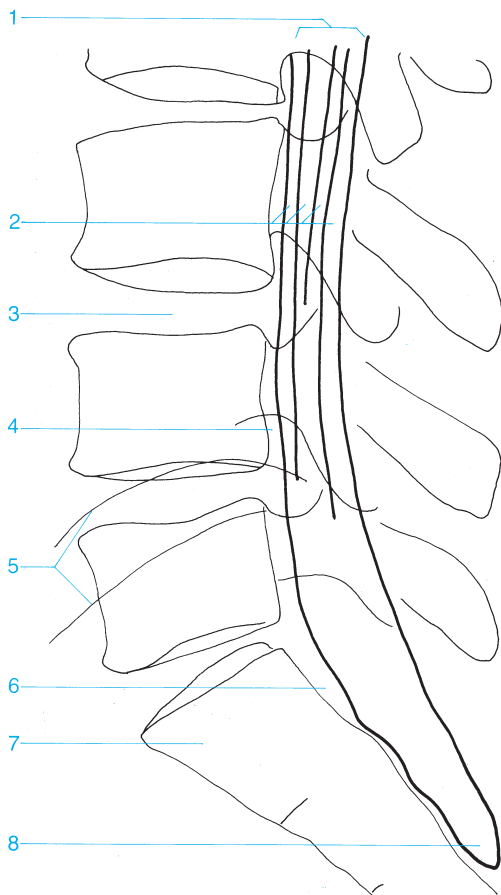




- 1 Intervertebral disk
- 2 Cauda equina
- 3 Spinal nerve root in the subarachnoid space

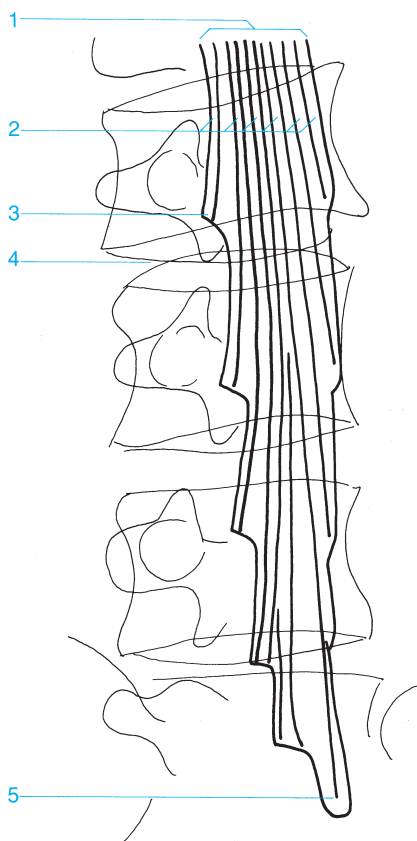
- 4 Nerve root sheath
- 5 Distal end of the dural sac





- | | |
|--------------------------|-------------------------------|
| 1 Dural sac | 5 Iliac crest |
| 2 Cauda equina | 6 Epidural fat |
| 3 Intervertebral disk | 7 Sacrum |
| 4 Intervertebral foramen | 8 Distal end of the dural sac |

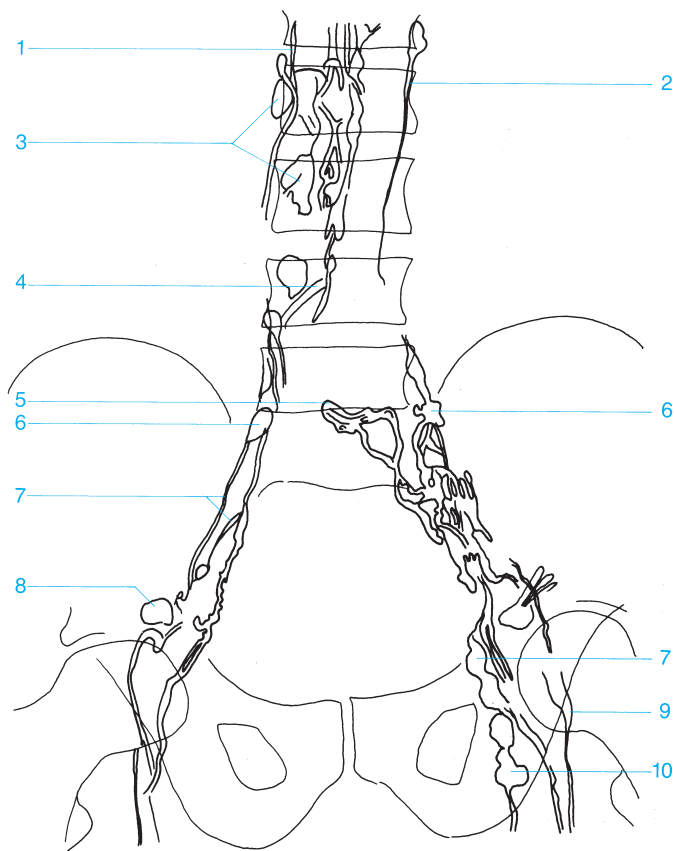




- 1 Dural sac
- 2 Cauda equina
- 3 Nerve root sheath, L3

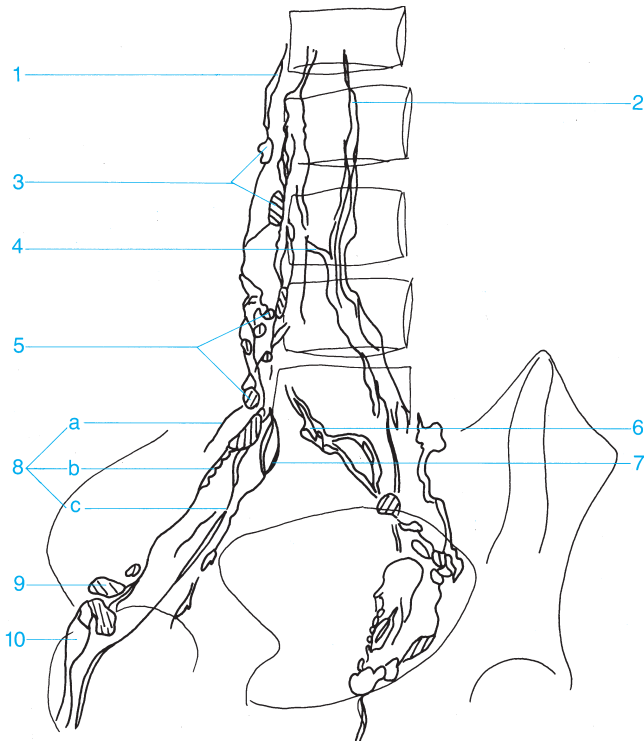
- 4 Intervertebral disk L3–4
- 5 Distal end of the dural sac (usually at the level of S1 or S2)





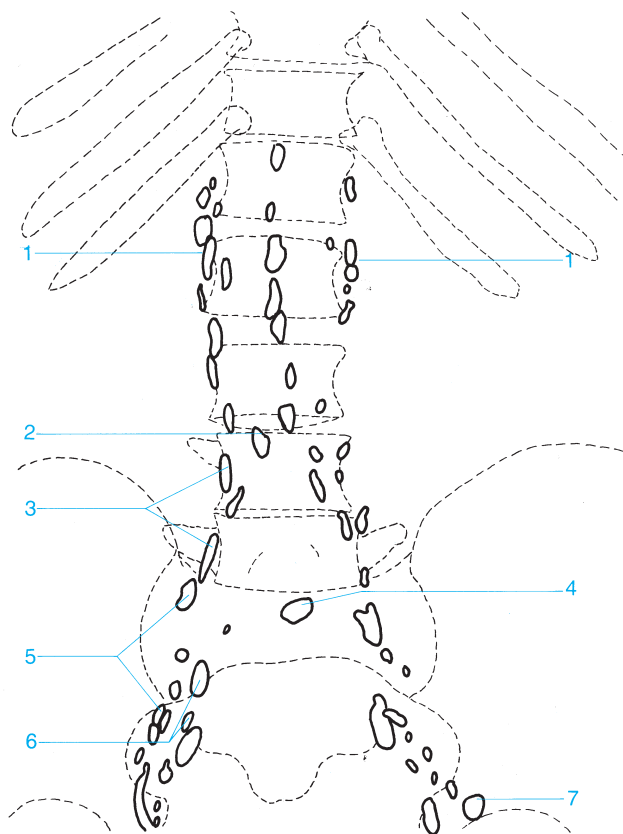
- | | |
|----------------------------|--|
| 1 Right lumbar trunk | 7 Lymph channels of the external iliac lymph nodes |
| 2 Left lumbar trunk | 8 Lateral lacunar lymph nodes |
| 3 Lumbar lymph nodes | 9 Superficial inguinal lymph nodes |
| 4 Crossover | 10 Deep inguinal lymph nodes |
| 5 Promontory lymph nodes | |
| 6 Common iliac lymph nodes | |





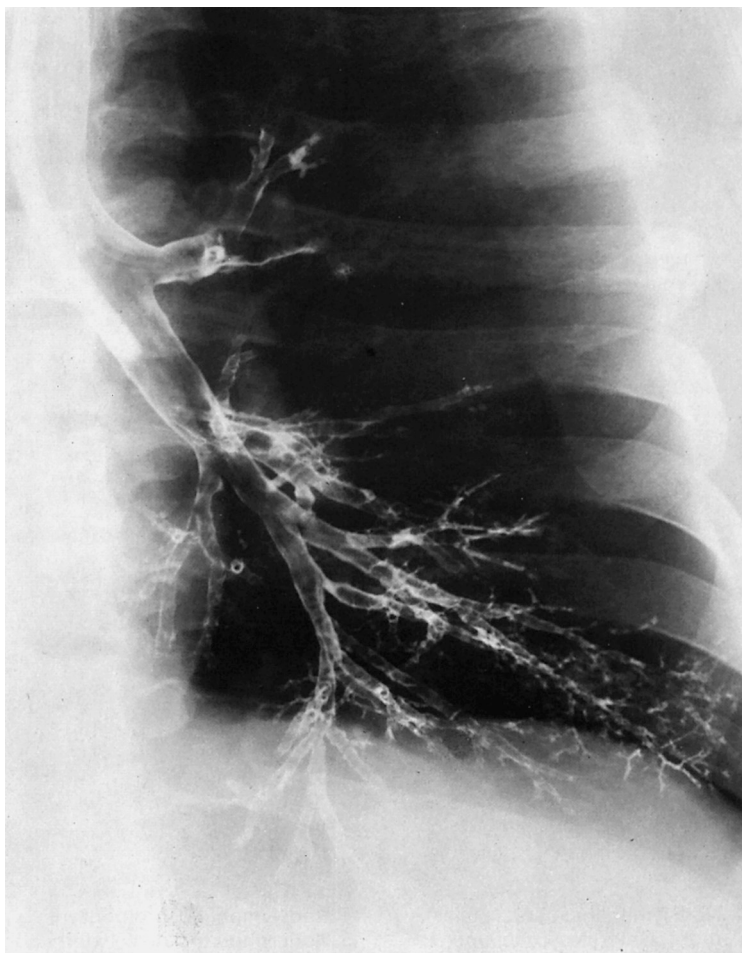
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|---|---|
| 1 Right lumbar trunk | 8 External and common iliac lymph nodes |
| 2 Left lumbar trunk | a External chain |
| 3 Lumbar lymph nodes | b Middle chain |
| 4 Crossover | c Internal chain |
| 5 Common iliac lymph nodes | 9 Lacunar lymph node |
| 6 Promontory lymph nodes | 10 Superficial inguinal lymph nodes |
| 7 Lymph channels connecting the internal iliac lymph nodes with the external and common iliac lymph nodes | |

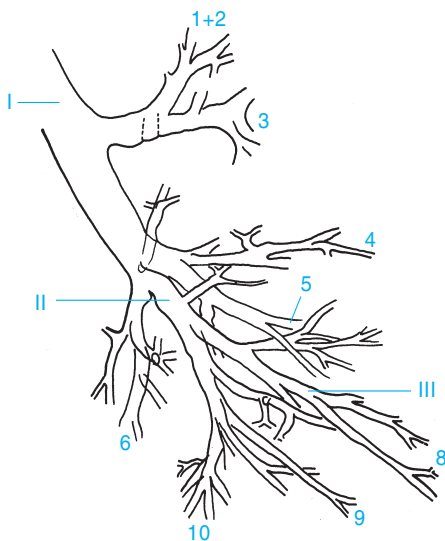




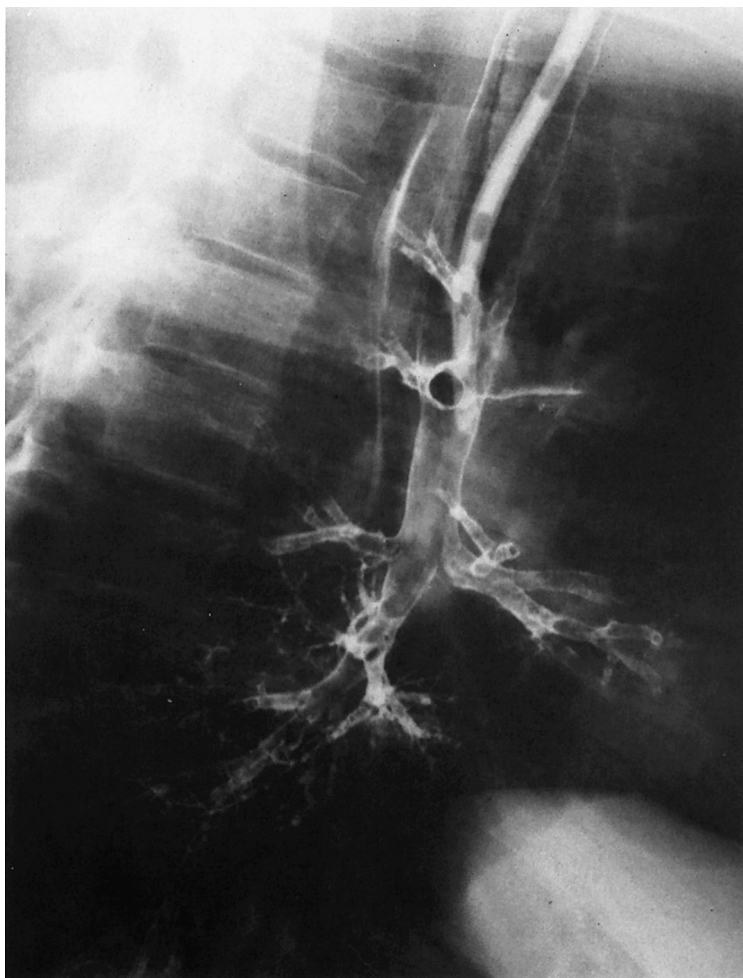
- 1 Para-aortic lymph nodes (lateral aortic, preaortic, and retroaortic)
- 2 Crossover
- 3 Common iliac lymph nodes

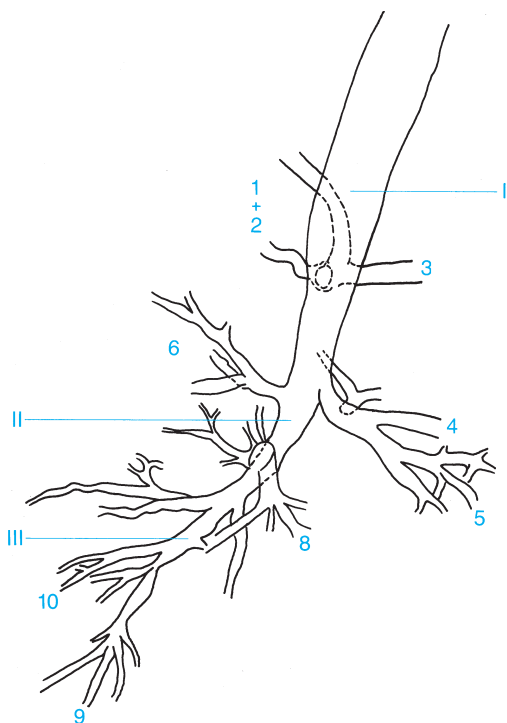
- 4 Promontory lymph nodes
- 5 External iliac lymph nodes
- 6 Internal iliac lymph nodes
- 7 Lacunar lymph node



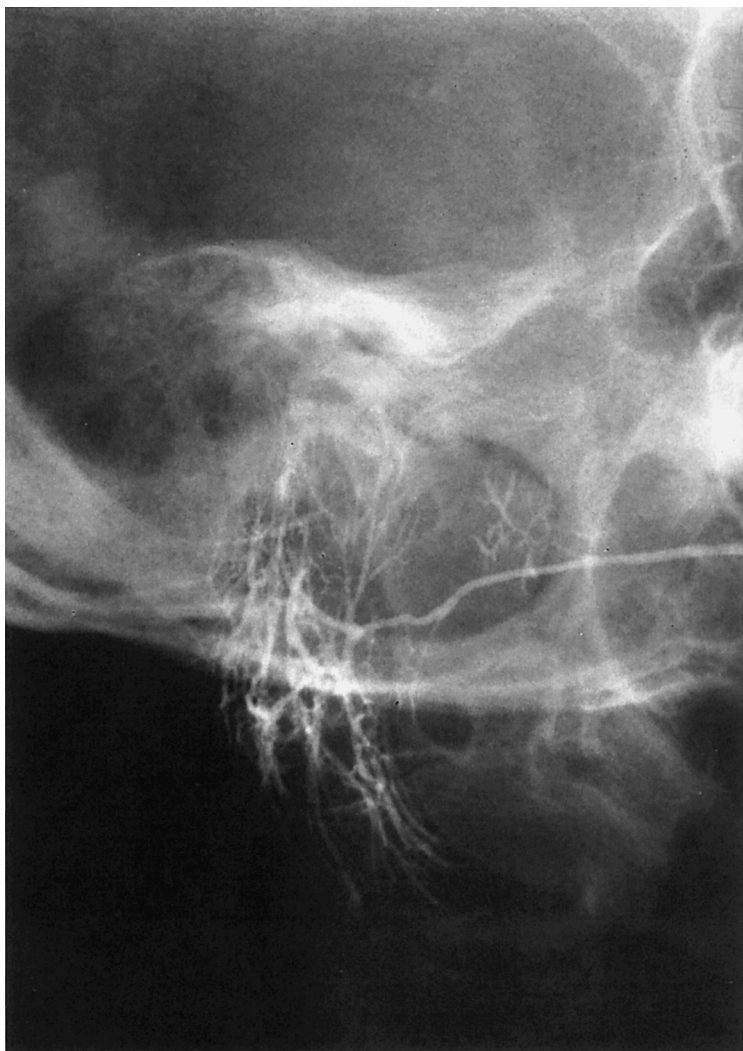


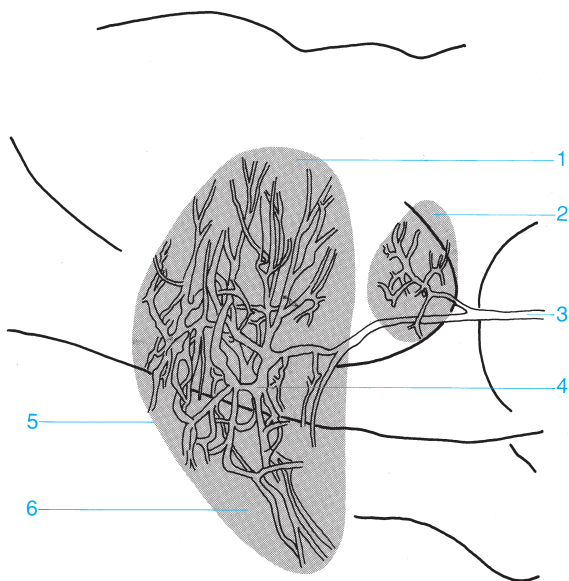
- | | |
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| 1 + 2 Apical-posterior segment of the upper lobe | 8 Anterior-medial basal segment of the lower lobe |
| 3 Anterior segment of the upper lobe | 9 Lateral basal segment of the lower lobe |
| 4 Lingula of the superior segment of the upper lobe | 10 Posterior basal segment of the lower lobe |
| 5 Lingula of the inferior segment of the upper lobe | I Main bronchus |
| 6 Superior segment of the lower lobe | II Lobar bronchus |
| 7 Not present on left side | III Segmental bronchus |





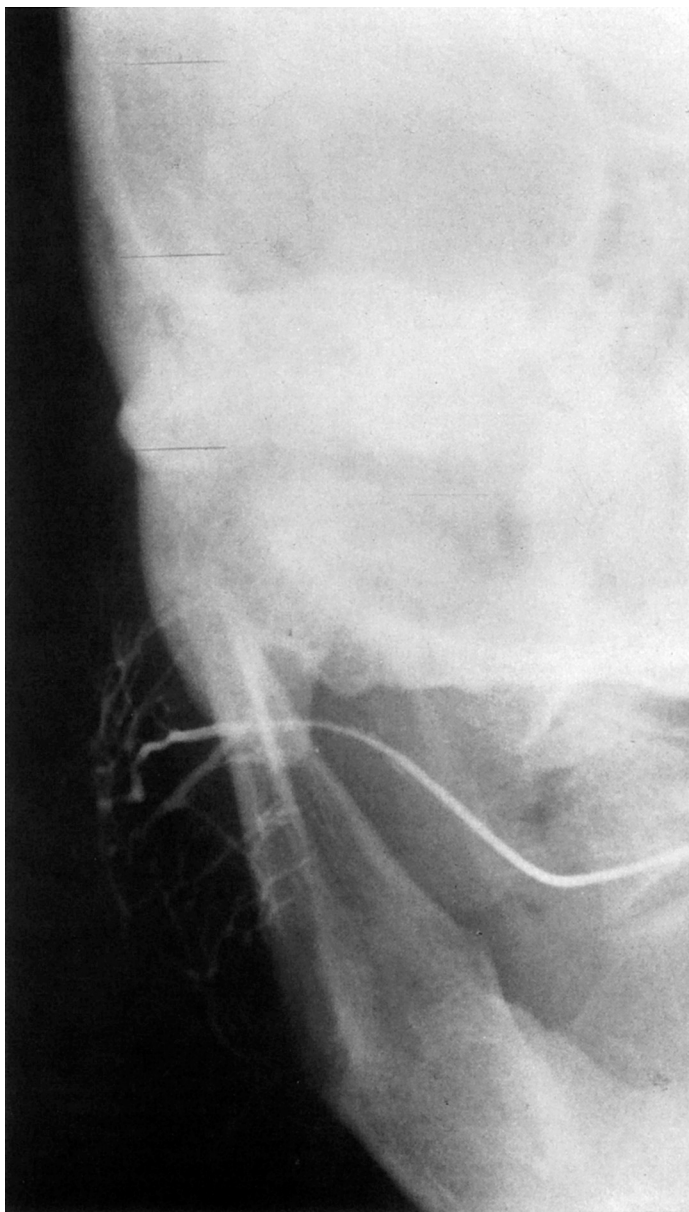
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|--|--|
| 1 + 2 Apical-posterior segment of the upper lobe | 8 Anterior-medial basal segment of the lower lobe |
| 3 Anterior segment of the upper lobe | 9 Lateral basal segment of the lower lobe |
| 4 Lingula of the superior segment of the upper lobe | 10 Posterior basal segment of the lower lobe |
| 5 Lingula of the inferior segment of the upper lobe | I Main bronchus |
| 6 Superior segment of the lower lobe | II Lobar bronchus |
| 7 Not present on left side | III Segmental bronchus |

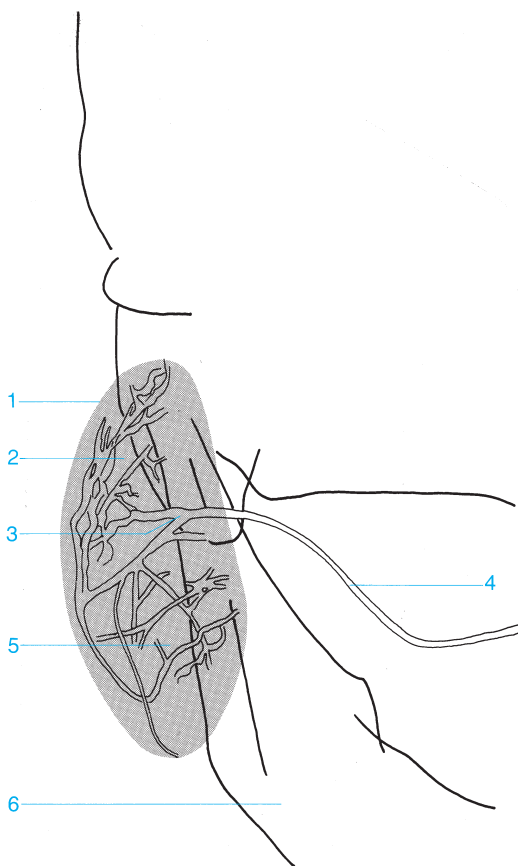




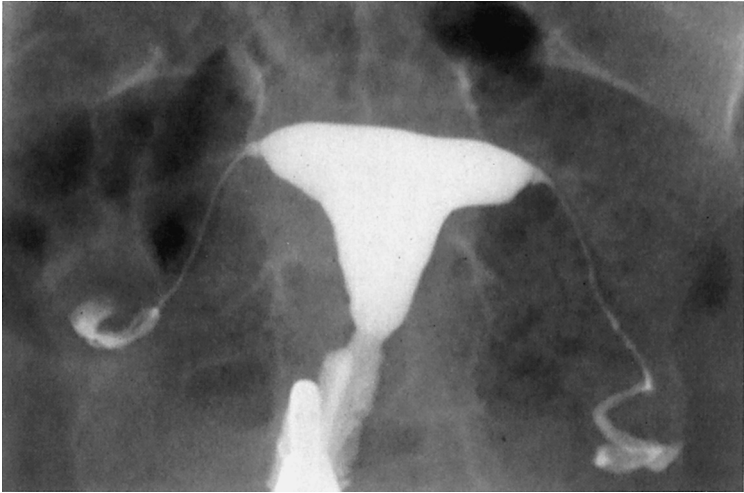
- 1 Superficial lobe of the parotid gland
- 2 Accessory parotid gland
- 3 Parotid duct (Stenson's duct)

- 4 Intralobular ductal system
- 5 Parotid gland
- 6 Deep lobe of the parotid gland (beneath the facial nerve)



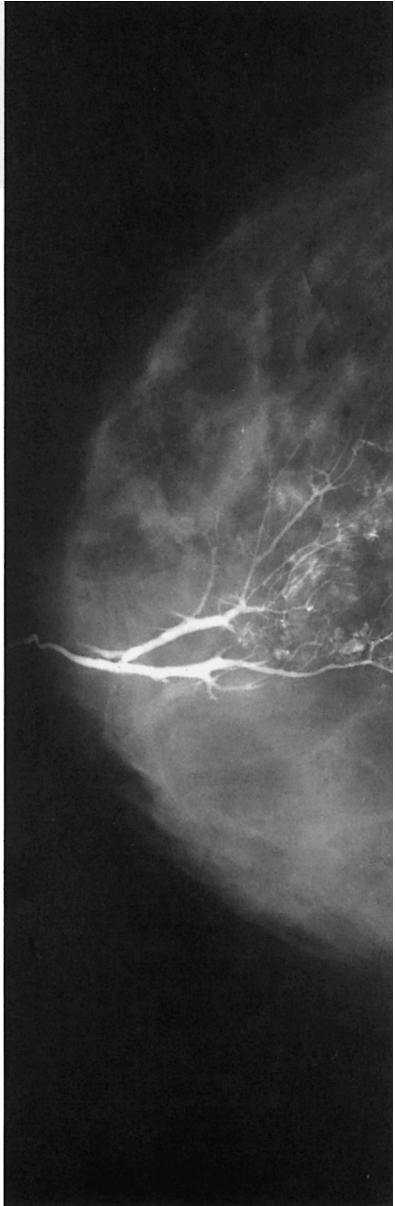
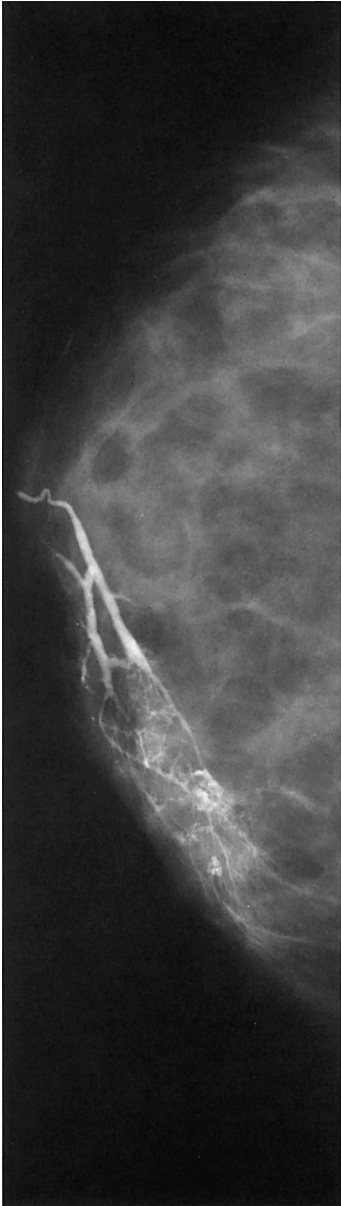


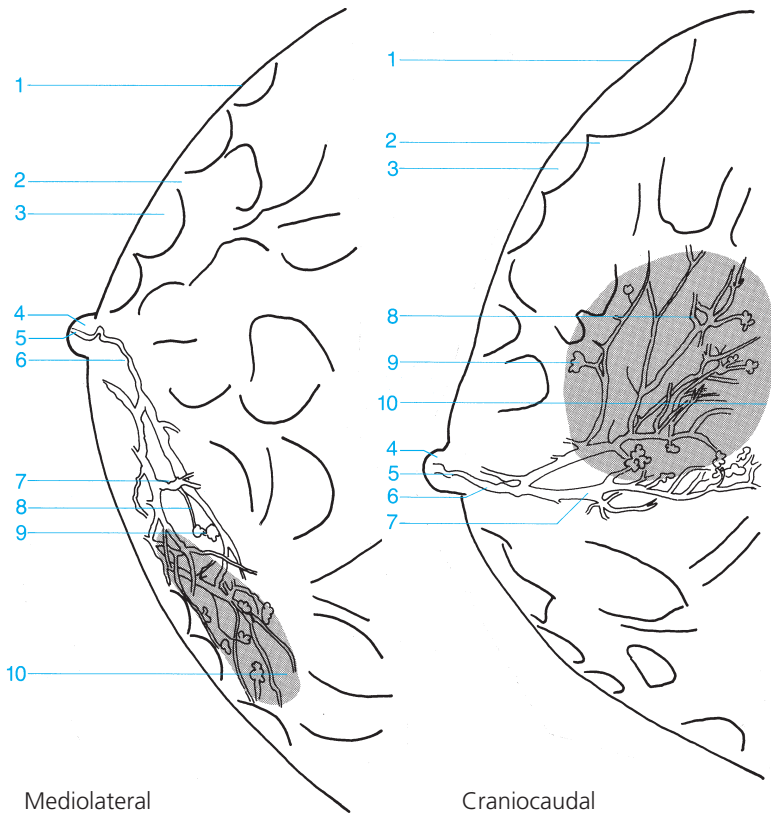
- | | |
|---|---|
| 1 Parotid gland | 4 Parotid duct (Stensen's duct) |
| 2 Superficial lobe of the parotid gland (on the facial nerve) | 5 Deep lobe of the parotid gland (beneath the facial nerve) |
| 3 Intralobular parotid ductal system | 6 Mandible |





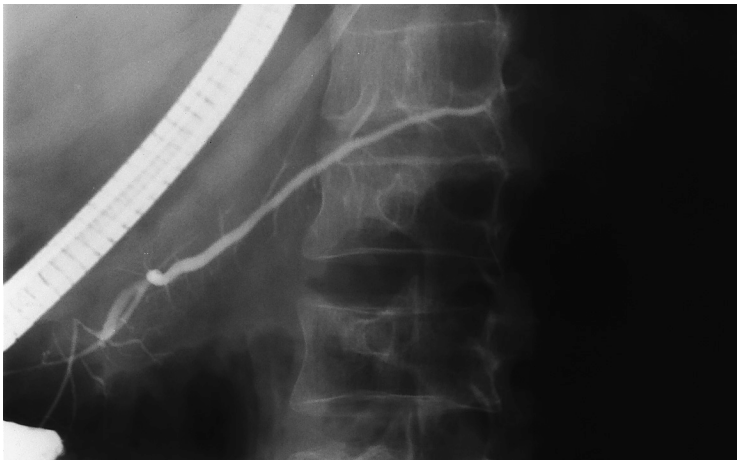
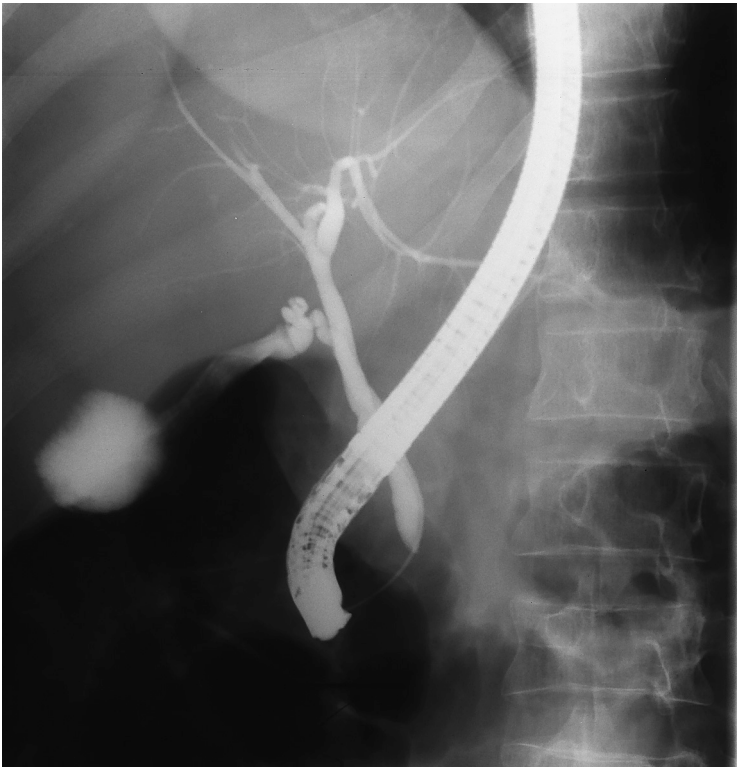
- | | |
|--|----------------------------------|
| 1 Fundus of the uterus | 5 Cervical canal |
| 2 Uterine ostium of the fallopian tube | 6 Fimbriae of the fallopian tube |
| 3 Fallopian tube | 7 Vagina |
| 4 Uterine cavity | 8 Instrument |

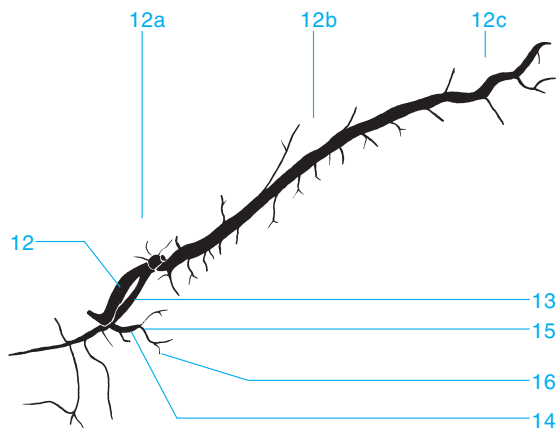
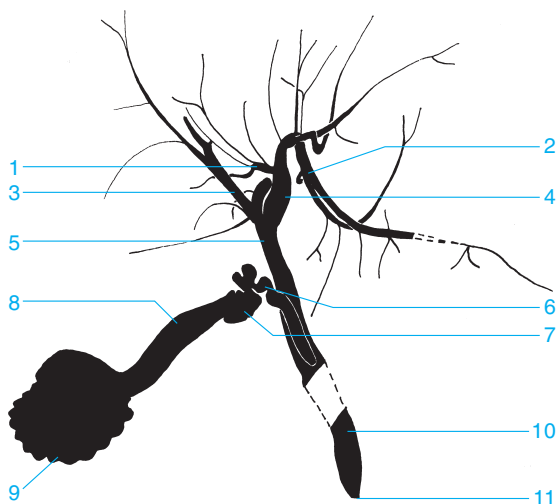




- 1 Skin and subcutaneous tissue
- 2 Cooper's ligament
- 3 Subcutaneous fatty tissue
- 4 Nipple
- 5 Main lactiferous duct posterior to the nipple

- 6 Lactiferous sinus
- 7 Lactiferous duct
- 8 Ductules
- 9 Lobules
- 10 Lobe





- | | |
|--|------------------------------|
| 1 Medial branch of the left hepatic duct | 10 Common bile duct |
| 2 Lateral branch | 11 Papilla of Vater |
| 3 Right hepatic duct | 12 Pancreatic duct |
| 4 Left hepatic duct | a Head region |
| 5 Common hepatic duct | b Body region |
| 6 Cystic duct | c Tail region |
| 7 Neck of the gallbladder | 13 Accessory pancreatic duct |
| 8 Body of the gallbladder | 14 Primary lateral duct |
| 9 Fundus of the gallbladder | 15 Secondary lateral duct |
| | 16 Tertiary lateral duct |

A

- Abdomen
 - muscle, 207
 - subcutaneous fat, 207
 - supine, 207
 - upright, 205
- Abdominal aorta, 297, 301
- Accessory parotid gland, 345
- Acetabulum
 - angle of inclination, 61
 - convexity, 59, 61, 143
 - floor, 67, 69, 143, 145, 149
 - rim
 - anterior, 67, 69, 143, 145, 147, 149, 151
 - posterior, 59, 67, 69, 143, 145, 147, 151
 - superior, 145, 147
 - roof, 61, 67, 69, 71, 143, 147, 149
 - teardrop, 59
- Achilles tendon, 171, 177
- Acromioclavicular joint, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 111
- Acromion, 81, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 257, 259
- Aditus ad antrum, 35
- Adrenal artery, inferior, 297
- Air cells
 - marginal, 31
 - mastoid, 7, 27, 29, 31
 - periantral, 31, 35
 - retrofacial, 31
 - retrosinus, 35
 - squamous, 31
- Ampulla
 - rectal, 245, 247
 - of Vater, 233, 235, 237
- Anal canal, 247
- Anastomic vein
 - inferior, 271
 - superior, 269, 271
- Angiography
 - ankle, 309
 - aorta
 - arch, 283
 - pelvic, 301
 - celiac trunk
 - arterial phase, 289
 - venous phase, 291
 - foot, 309
 - knee, 305
 - lower leg, 307
 - thigh, 303
- Angle
 - acetabulum, 61
 - of Citelli, 31
 - costophrenic, 193, 205
 - gastroesophageal, 231
 - mandible, 3, 17, 19, 21, 22
 - scapula
 - inferior, 81, 95, 97
 - superior, 87, 89, 95, 97, 99, 101, 103
 - sternum, 83, 85, 196
 - venous, 311
 - Wiberg's center-to-corner, 61
- Angular gyrus, artery, 265, 267
- Ankle, 140, 169, 171, 175
 - angiogram, 309
 - anterior-posterior view, 169
 - arthrogram, 263
 - joint space, 263
 - lateral view, 171
 - recess
 - anterior, 263
 - posterior, 263
 - supracalcaneal, 263
 - tendon, 263
 - see also* Foot; Leg
- Anorectal junction, 245
- Antebrachial vein, median, 319
- Antrum, 33, 35, 233
 - mastoid, 29, 31
 - pyloric, 233, 235, 237
- Aorta
 - abdominal, 297, 301
 - arch, 195, 196, 201, 203, 217, 229, 283
 - anterior-posterior angiogram, 283
 - ascending, 196, 201, 203, 283
 - bulb, 283
 - descending, 193, 196, 201, 203, 217, 283
 - pelvic, angiogram, 301
 - valve, 195, 196
- Aortopulmonary window, 196
- Appendix, 239, 243
- Arcuate artery, 297
- Arcuate eminence, 7, 29, 33
- Arcuate line, 71
- Arcuate vein, 299
- Arm
 - deep vein of, 317
 - upper
 - anterior-posterior view, 109
 - lateral view, 111
 - see also* Elbow; Forearm; Shoulder; Wrist
- Arteriography, 264–309
 - carotid artery, 264–71
 - anterior-posterior
 - arterial phase, 265
 - venous phase, 269
 - lateral
 - arterial phase, 267
 - venous phase, 271
 - pulmonary artery
 - arterial phase, 285

- venous phase, 287
- vertebral artery, 272–9
 - anterior-posterior
 - arterial phase, 273
 - venous phase, 277
 - lateral
 - arterial phase, 275
 - venous phase, 279
- Artery
 - adrenal, inferior, 297
 - of angular gyrus, 265, 267
 - arcuate, 297
 - basilar, 273, 275
 - brachiocephalic trunk, 281, 283
 - callosomarginal, 265, 267
 - carotid
 - anterior-posterior arteriogram
 - arterial phase, 265
 - venous phase, 269
 - common, 281, 283
 - external, 281
 - internal, 265, 267, 281
 - lateral arteriogram
 - arterial phase, 267
 - venous phase, 271
 - celiac trunk, 289
 - arterial phase, 289
 - venous phase, 291
 - cerebellar
 - anterior inferior, 273, 275
 - posterior inferior, 273, 275
 - superior, 273, 275
 - cerebral
 - anterior, 265, 267
 - fourth segment, 265
 - second segment, 265, 267
 - third segment, 265
 - middle, 265, 267
 - first segment, 265
 - second segment, 265, 267
 - posterior, 273, 275
 - cervical, ascending, 281
 - choroidal
 - anterior, 265, 267
 - lateral, 275
 - medial, 275
 - posterior, 275
 - colic
 - middle, 293
 - right, 293
 - communicating
 - anterior, 265
 - posterior, 267, 275
 - cystic, 289
 - dorsalis pedis, 309
 - facial, 281
 - femoral
 - common, 301
 - deep, 301, 303
 - lateral circumflex, 303
 - ascending branch, 303
 - medial circumflex, 303
 - superficial, 301, 303, 305
 - fibular, circumflex, 307
 - frontal
 - anterior internal, 267
 - medial internal, 267
 - posterior internal, 267
 - gastric
 - left, 289
 - right, 289
 - gastroduodenal, 289
 - gastroepiploic, right, 289
 - genicular
 - descending, 305
 - inferior medial, 305
 - middle, 305
 - superior lateral, 305
 - superior medial, 305
 - gluteal
 - inferior, 301
 - superior, 301
 - hepatic
 - common, 289
 - left branch, 289
 - right branch, 289
 - ileal, 293
 - ileocolic, 293
 - iliac
 - common, 301
 - external, 301
 - internal, 301
 - interlobular, 297
 - jejunal, 293
 - lumbar, 301
 - marginal, 273
 - meningeal, middle, 5
 - mesenteric, superior, 289, 293
 - arterial phase, 293
 - venous phase, 295
 - obturator, 301
 - occipital, medial, 273, 275
 - calcarine branch, 275
 - ophthalmic, 265, 267
 - orbital, frontal, 267
 - pancreaticoduodenal
 - inferior, 289, 293
 - superior, 289
 - paracentral, 267
 - parietal
 - anterior, 265, 267
 - internal
 - inferior, 267
 - superior, 267

- posterior, 265, 267
- parieto-occipital, 273, 275
- perforating, 303
- pericallosal, 265, 267
- peroneal, 305, 307
- plantar, 309
- polar
 - frontal, 265, 267
 - temporal, 265
- popliteal, 305
- prefrontal, 265, 267
- pulmonary
 - apical branch, 285
 - arteriography
 - arterial phase, 285
 - venous phase, 287
 - left, 195, 201, 203, 285, 311
 - left upper lobe, 201
 - lingular branch, 285
 - lobar branch
 - inferior, 195, 201, 217, 219, 285
 - middle, 219, 285
 - superior, 219
 - main, 195, 196, 201
 - right, 195, 203, 217, 219, 285, 311
 - trunk, 285, 311
- renal
 - left, 297
 - right, 297
- sacral
 - lateral, 301
 - median, 301
- segmental, 285, 287
 - anterior branch, 297
 - inferior, 297
 - middle, 297
 - posterior branch, 297
 - superior, 297
- splenic, 289, 297
- subclavian, 195, 281, 283
 - arch, 195
- sulcal, precentral, 265
- supraduodenal, superior, 289
- suprascapular, 281
- temporal, posterior, 265, 267
- temporo-occipital, 273, 275
- thalamoperforate, 273
- thoracic, internal, 281
- thyroid
 - inferior, 281
 - superior, 281
- tibial
 - anterior, 305, 307, 309
 - muscular branch, 307
 - posterior, 305, 307, 309
- vertebral, 273, 275, 281, 283
 - anterior-posterior arteriogram
 - arterial phase, 273
 - venous phase, 277
 - lateral arteriogram
 - arterial phase, 275
 - venous phase, 279
 - see also* Aorta
- Arthrography
 - ankle, 263
 - knee, 261
 - shoulder
 - anterior-posterior, 257
 - oblique, 259
 - wrist
 - lateral, 255
 - posterior-anterior, 253
- Articular processes, 43
 - inferior, 47, 49, 51, 53, 55, 57, 73, 221
 - superior, 47, 49, 51, 53, 55, 57, 73
- Articular tubercle, 31
- Articulation, *see* Joint
- Arytenoid cartilage, 213
- Ascending colon, 241, 243
- Atlantoaxial joint, 11, 43
- Atlas, 47
 - anterior arch, 27, 45, 47
 - posterior arch, 7, 45
- Atrium
 - left, 195, 196, 201, 287
 - right, 195, 201, 203, 285, 287, 311
- Auditory canal
 - external, 31, 35
 - opening, 5
 - internal, 3, 7, 11, 27, 29, 31, 33
- Axilla, venogram, 317
- Axillary recess, 257, 259
- Axillary vein, 317
- Axis, 45, 227
 - dens, 3, 27, 41, 43, 215
- Azygoesophageal stripe, 193

B

- Basal vein
 - common, 287
 - inferior, 287
 - of Rosenthal, 269, 271, 279
- Basilar artery, 273, 275
- Basilic vein, 319
- Biceps
 - head, tendon sheath, 257, 259
 - tendon insertion, 259
- Bicipital groove, 91, 93, 99, 103, 105, 107, 109
- Big toe, *see* Toe
- Bile duct, common, 251, 353
- Bladder, *see* Urinary bladder
- Brachial vein, 317, 319

- Brachiocephalic trunk, 281, 283
 - Brachiocephalic vein
 - left, 311
 - right, 311
 - contour, 195
 - Breast
 - ductules, 351
 - galactogram, 351
 - glandular tissue, 209, 211
 - lactiferous duct, 209, 211, 351
 - lactiferous sinus, 351
 - lobules, 351
 - contour, 209, 211
 - mammogram
 - craniocaudal, 209, 211
 - mediolateral, 211
 - nipple, 209, 211, 351
 - shadow, 193
 - skin, 209, 211, 351
 - subcutaneous fat, 209, 211, 351
 - subcutaneous tissue, 351
 - veins, 209, 211
 - Bronchogram, left, 340–3
 - anterior-posterior, 341
 - lateral, 343
 - Bronchus
 - intermediate, 193, 217, 219
 - lobar, 341, 343
 - lower lobe, 196, 219
 - left, 217
 - right, 217
 - segmental, 219, 341, 343
 - main, 341, 343
 - left, 193, 203, 217
 - right, 193, 203, 217
 - middle lobe, 217, 219
 - upper lobe
 - left, 196, 201, 217
 - origin, 219
 - right, 196, 217

see also Lung
- C**
- Calcaneocuboid joint, 175, 185
 - Calcaneus, 169, 171, 172, 175, 177,
 - 181, 183, 187, 263
 - lateral view, 177
 - posterior tuberosity, 171, 175, 177, 179
 - lateral process, 179
 - medial process, 179
 - tangential view, 179
 - Callosomarginal artery, 265, 267
 - Canine teeth, 21, 22
 - Capitate bone, 125, 127, 129, 131, 133,
 - 135, 137
 - Capitellum, 111, 113, 117, 119, 120
 - Capsular recess
 - inferior, 261
 - superior, 261
 - Carotid artery
 - arteriography
 - anterior-posterior
 - arterial phase, 265
 - venous phase, 269
 - lateral
 - arterial phase, 267
 - venous phase, 271
 - common, 281, 283
 - external, 281
 - internal, 265, 267, 281
 - Carpal bones, 120, 122
 - proximal row, 120, 122
 - Carpal tunnel, 133
 - Carpometacarpal joint, 129
 - Cartilage
 - arytenoid, 213
 - knee, 261
 - nasal, 24
 - thyroid, 213, 215
 - triradiate cartilage line, 61
 - wrist, triangular fibrocartilage, 253
 - Cauda equina, 327, 329, 331, 333
 - Cavernous sinus, 279
 - anterior drainage, 271
 - posterior drainage, 271
 - Cecum, 239, 241, 243
 - Celiac trunk, 289
 - angiography
 - arterial phase, 289
 - venous phase, 291
 - Cephalic vein, 311, 317, 319
 - Cerebellar artery
 - anterior inferior, 273, 275
 - posterior inferior, 273, 275
 - superior, 273, 275
 - Cerebellar vein
 - hemispheric, 277
 - inferior, 277, 279
 - precentral, 279
 - superior, 279
 - Cerebral artery
 - anterior, 265, 267
 - fourth segment, 265
 - second segment, 265, 267
 - third segment, 265
 - middle, 265, 267
 - first segment, 265
 - second segment, 265, 267
 - posterior, 273, 275
 - Cerebral vein
 - great, 269, 271, 279
 - internal, 269, 271, 279
 - superior, 277

- Cervical artery, ascending, 281
- Cervical canal, 349
- Cervical spine, 27, 87
 - anterior-posterior view, 43
 - lateral view, 45
 - oblique view, 47
- Cervical vessels, anterior-posterior angiogram, 281
- Chest, 192–203
 - anterior oblique view
 - left, 203
 - right, 201
 - lateral radiograph, 196–7
 - myelogram
 - anterior-posterior, 325
 - lateral, 327
 - posterior-anterior radiograph, 193, 195
 - wall, 198
 - see also* Lung
- Cholangiopancreatography, endoscopic retrograde (ERCP), 353
- Cholecystocholangiogram, 251
- Chopart's (intertarsal) joint, 172, 187
- Choroidal artery
 - anterior, 265, 267
 - lateral, 275
 - medial, 275
 - posterior, 275
- Citelli, angle of, 31
- Clavicle, 49, 81, 83, 85, 87, 89, 91, 93, 95, 99, 101, 103, 105, 107, 109, 111, 193, 257, 259
 - anterior-posterior view, 89
 - conoid tubercle, 89, 93
 - distal, 97
 - oblique view, 91
 - proximal, 87, 89
- Clinoid process
 - anterior, 5, 37
 - posterior, 5, 37
- Clivus, 5, 27, 37
- Coccyx, 59, 63, 65, 73, 75, 77, 79, 245
 - anterior-posterior view, 77
 - cornu, 73, 77
 - lateral view, 79
- Cochlea, 27, 29, 33
- Colic artery
 - middle, 293
 - right, 293
- Colic vein, right, 295
- Colon, 237, 243
 - ascending, 241, 243
 - descending, 243
 - haustra, 241, 243
 - hepatic flexure, 243
 - sigmoid, 243
 - splenic flexure, 243
 - gas, 205
 - transverse, 243
 - gas, 205
- Common bile duct, 251, 353
- Common hepatic duct, 251, 353
- Communicating artery
 - anterior, 265
 - posterior, 267, 275
- Contrast studies
 - colon, 243
 - defecography, 247
 - duodenum, 235
 - esophagus, 229, 231
 - hypopharynx
 - anterior-posterior view, 225
 - lateral view, 227
 - ileocecal region, 241
 - intravenous cholecystocholangiogram, 251
 - urogram, 249
 - rectum, 245
 - small bowel, 237, 239
 - stomach, 231, 233, 235, 237
 - see also* Arteriography; Arthrography
- Cooper's ligament, 209, 211, 351
- Coracoid, 87
- Coracoid process, 81, 89, 91, 93, 95, 97, 99, 103, 105, 107, 111, 257, 259
- Coronal suture, 5
- Coronoid fossa, 111, 115, 122
- Coronoid process, 17, 19, 21, 22, 27, 111, 113, 115, 119, 120, 122
 - end on view, 25
- Corpus callosum, 265
 - dorsal branch, 275
- Costal arch, 81
- Costal notch, 83
- Costodiaphragmatic recess, 193, 205
- Costophrenic angle, 193, 205
- Costotransverse joint, 81, 89
- Costovertebral articulation, 81
- Cranial fossa
 - anterior, 37
 - greater wing, 27
 - middle, 27
- Cranium, *see* Skull
- Cribriform plate, 5
- Crista galli, 11
- Crossover, lymph nodes, 335, 337, 339
- Cubital tunnel, 117
- Cubital vein, median, 319
- Cuboid bone, 171, 172, 175, 177, 181, 183, 185, 187
 - secondary, 173
- Cuneiform bone
 - lateral, 172, 175, 181, 183, 185, 187
 - medial, 171, 172, 175, 181, 183, 185, 187

middle, 172, 175, 181, 183, 185, 187
 Cuneonavicular joint, 175, 183
 Cystic artery, 289
 Cystic duct, 251, 353

D

Deep vein of arm, 317
 Defecography, 247
 Deltoid tuberosity, 109
 Dens, 7, 11
 axis, 3, 27, 41, 43, 215
 Dental enamel, 22
 Dental root canal, 19, 22
 Dentin, 22
 Descending colon, 243
 Diaphragm, 49, 51, 193, 201, 205
 insertions, 193
 see also Hemidiaphragm
 Diploe, 5
 Dorsalis pedis, 309
 Dorsum sellae, 29, 37
 Duct
 common bile, 251, 353
 cystic, 251, 353
 hepatic
 common, 251, 353
 left, 353
 right, 353
 lactiferous, 209, 211, 351
 pancreatic, 353
 accessory, 353
 body region, 353
 head region, 353
 lateral
 primary, 353
 secondary, 353
 tertiary, 353
 tail region, 353
 parotid, 345, 347
 Stenson's, 345, 347
 Duodenojejunal flexure, 237
 Duodenum, 233, 235
 ascending, 237
 descending, 235, 237
 horizontal, 237
 papilla of Vater, 235, 353
 Dural sac, 327, 331, 333
 distal end, 329, 331, 333
 lateral margin, 325

E

Ear
 auditory canal
 external, 31, 35
 opening, 5

 internal, 3, 7, 11, 27, 29, 31, 33
 cochlea, 27, 29, 33
 outer, 31
 semicircular canal, 7, 27
 anterior, 29, 33
 lateral, 29, 33
 tympanic cavity, 29, 33, 35
 roof, 33
 Elbow
 anterior-posterior view, 113
 axial view, 117
 lateral view, 115
 see also Arm; Forearm
 Enamel, 22
 End plate
 inferior, 45, 49, 51, 53, 55
 superior, 45, 49, 51, 53, 55
 Endoscopic retrograde
 cholangiopancreatography (ERCP),
 353
 Epidural fat, 331
 Epiglottis, 215, 225, 229
 Epiphyseal plate, 157
 Epiphysis, 61
 ERCP (endoscopic retrograde
 cholangiopancreatography), 353
 Esophageal hiatus, 231
 Esophagus, 215, 225, 227, 229, 231
 abdominal, 231, 233
 aortic segment, 229
 body, 229
 bronchial segment, 229
 distal, 231
 epiphrenic segment, 229
 interbronchial segment, 229
 paratracheal segment, 229
 retrocardiac segment, 229
 sphincter, upper, 229
 Ethmoid sinus, 3, 5, 9, 11, 13, 15, 39
 Ethmoidal groove, 24
 Extensor recess, 253, 255
 External auditory canal, 31, 35
 opening, 5
 Extradural space, 325
 Extremity, *see* Arm; Leg

F

Facet joint, 45, 47, 51, 53
 inferior, 45
 superior, 45
 Facial artery, 281
 Facial bones, pantomogram, 23
 Facial nerve, 345, 347
 Fallopian tube, 349
 fimbriae, 349
 uterine ostium, 349

- Fat
 - epidural, 331
 - gluteus minimus fat stripe, 59, 143
 - iliopsoas fat stripe, 59, 143
 - intergluteal fat stripe, 143
 - knee
 - infrapatellar, 159
 - posterior, 159
 - preperitoneal, 207
 - subcutaneous
 - abdomen, 207
 - breast, 209, 211, 351
- Femoral artery
 - common, 301
 - deep, 301, 303
 - lateral circumflex, 303
 - ascending branch, 303
 - medial circumflex, 303
 - superficial, 301, 303, 305
- Femoral vein, 321
 - deep, 321
 - superficial, 321
- Femur, 59, 61, 65, 140, 143, 155, 157, 161
 - articular surface, 155
 - condyle
 - lateral, 140, 153, 155, 157, 159, 161, 163, 165, 167
 - medial, 140, 153, 155, 157, 161, 163, 165, 167
 - cortex, 153, 155, 157
 - distal third, 140, 155
 - epicondyle
 - lateral, 153, 157, 161
 - medial, 153, 157, 161
 - epiphyseal plate, 157
 - epiphysis, 61
 - head, 63, 65, 67, 69, 73, 140, 143, 145, 151, 245
 - anterior articular surface, 147
 - fovea, 143
 - posterior articular surface, 149
 - tangential view (Schneider I), 147
 - tangential view (Schneider II), 149
 - medullary canal, 153
 - middle third, 140, 155
 - neck, 59, 61, 69, 143, 145, 147, 149, 151
 - proximal third, 140, 155
 - shaft, 153
- Fibula, 140, 155, 157, 165, 167, 169, 171, 175, 263
 - cortex, 167
 - head, 153, 155, 157, 159, 161, 165, 167
 - apex, 155
 - medullary canal, 167
 - neck, 159, 161, 165
 - notch, 169
- Fibular circumflex artery, 307
- Fimbriae, 349
- Finger
 - interphalangeal joint
 - distal, 125, 127, 139
 - proximal, 125, 127, 139
 - phalanx
 - distal, 125, 139
 - middle, 125, 139
 - proximal, 125, 127, 129, 139
 - in two planes, 139
- Fissure
 - orbital, superior, 13, 15
 - sphenopetrosal, 33
- Flexor recess, 253, 255
- Foot
 - angiogram, 309
 - anterior-posterior view, 173
 - forefoot
 - anterior-posterior view, 185
 - oblique view, 187
 - lateral view, 175
 - see also* Ankle; Toe
- Foramen
 - infraorbital, 9
 - intervertebral, 47, 51, 55, 57, 331
 - jugular, 7, 27
 - mandibular, 19
 - mental, 19, 21, 22
 - obturator, 59, 65, 67, 69, 140, 143, 145, 147, 151
 - sacral, 53, 71, 73, 77, 221
 - tooth, apical, 19, 22
- Foramen lacerum, 27
- Foramen magnum, 5, 7, 27, 29, 43
- Foramen ovale, 9, 27
- Foramen rotundum, 9, 13
- Foramen spinosum, 27
- Forearm
 - anterior-posterior view, 121
 - distal third, 120, 122
 - lateral view, 123
 - middle third, 120, 122
 - proximal third, 120, 122
 - venogram, 319
 - see also* Elbow; Wrist
- Forefoot
 - anterior-posterior view, 185
 - oblique view, 187
 - see also* Toe
- Fossa
 - coronoid, 111, 115, 122
 - cranial
 - anterior, 37
 - greater wing, 27
 - middle, 27
 - glenoid, 87, 89, 93, 99, 103, 107, 111
 - intercondylar, 155, 161, 163

olecranon, 109, 111, 113, 115, 119, 120, 122
 pituitary, 5, 37, 39
 popliteal, 155
 pterygoid, 27
 pterygopalatine, 22, 27
 subarcuate, 33
 of Sylvius, vein, 269, 271
 temporal, 25
 temporomandibular joint, 31
 Frontal artery, internal
 anterior, 267
 medial, 267
 posterior, 267
 Frontal sinus, 3, 5, 9, 11, 13, 15, 29, 39
 Frontal vein, 269
 ascending, 271
 Frontonasal suture, 24
 Frontozygomatic suture, 3

G

Galactography, 351
 Gallbladder, 251, 353
 fundus, 251, 353
 neck, 251, 353
 Gas
 colon
 splenic flexure, 205
 transverse, 205
 rectum, 79
 small bowel, 205
 Gastric artery
 left, 289
 right, 289
 Gastric bubble, 193, 197, 201, 203, 205
 Gastric folds, 233
 Gastroduodenal artery, 289
 Gastroepiploic artery, right, 289
 Gastroesophageal angle, 231
 Gastrointestinal system, 224–47
 Genicular artery
 descending, 305
 inferior medial, 305
 middle, 305
 superior lateral, 305
 superior medial, 305
 Glandular tissue, breast, 209
 Glenohumeral joint, 103
 Glenoid fossa, 87, 89, 93, 99, 103, 107, 111
 Glenoid labrum, 99, 257, 259
 Glossoepiglottic fold, lateral, 225, 229
 Gluteal artery
 inferior, 301
 superior, 301
 Gluteus minimus muscle, fat stripe, 59, 143
 Gonad shield, 41

Great toe, *see* Toe
 Growth plate, 153, 157, 161, 165, 169, 171

H

Hamate bone, 125, 127, 129, 133, 135, 137
 hook, 129, 131, 133
 Hand
 anterior-posterior view, 125
 oblique view, 127
 see also Finger; Wrist
 Haustra of colon, 241, 243
 Heart, 195
 atrium
 left, 195, 196, 201, 287
 right, 195, 201, 203, 285, 287, 311
 mitral valve, 195, 197
 posterior-anterior radiograph, 195
 shadow, 197
 tricuspid valve, 195, 197
 ventricle
 left, 195, 197, 201, 203
 right, 195, 197, 203, 285, 311
 Hemidiaphragm
 left, 197, 203
 right, 197, 203
 Hemithorax, osseous, 81
 Hepatic artery
 common, 289
 left branch, 289
 right branch, 289
 Hepatic duct
 common, 251, 353
 left, 353
 right, 353
 Hepatic flexure, 243
 Hiatus
 esophageal, 231
 sacral, 73, 77
 Hilgenreiner's line, 61
 Hip, 41, 73, 75
 anterior-posterior view, 143
 axial view, 151
 joint space, 65, 140
 Lauenstein view, 145
 see also Leg
 Humeral radial joint, 113, 115, 119, 120
 Humeraloulnar joint, 113, 115, 119, 120
 Humerus, 87, 103, 107, 109, 113, 115, 117, 119, 120, 122, 319
 cortex, 101, 111
 distal third, 111
 epicondyle
 lateral, 109, 113, 115, 117, 119, 120
 medial, 109, 113, 115, 117, 119, 120
 head, 81, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111

medial third, 111
 metaphysis, 101
 neck
 anatomical, 99, 109
 surgical, 99, 101, 107, 109
 proximal third, 111
 shaft, 97, 111
 tubercle
 greater, 87, 91, 93, 99, 103, 105, 107, 109
 crest of, 105
 lesser, 87, 91, 93, 99, 103, 105, 107, 109, 111
see also Trochlea
 Hyoid bone, 22, 215, 227
 Hypopharynx
 anterior-posterior view, 225
 lateral view, 227
 Hysterosalpingogram, 349

I

Ileal artery, 293
 Ileal vein, 295
 Ileocecal region, spot film, 241
 Ileocecal valve, 241, 243
 Ileocolic artery, 293
 Ileocolic vein, 295
 Ileum, 237, 239, 241
 terminal, 241
 Iliac artery
 common, 301
 external, 301
 internal, 301
 Iliac bone, 149
 Iliac crest, 55, 59, 63, 65, 67, 75, 79, 205, 207, 331
 Iliac lymph nodes, 335, 337
 common, 335, 337, 339
 external, 337, 339
 internal, 337, 339
 Iliac spine
 anterior
 inferior, 65, 67, 143, 145, 147, 151
 superior, 59, 63, 65, 67, 143, 145, 147, 149
 posterior
 inferior, 59, 63, 73, 221
 superior, 59, 63, 73, 221
 Iliac vein
 common, 313, 315, 321
 external, 313, 315, 321
 internal, 313, 315
 Iliac wing, 59, 63, 67, 71, 73, 221
 Ilioischial line, 143
 Iliopectineal line, 69
 Iliopsoas muscle, fat stripe, 59, 143
 Iliopubic line, 63
 Ilium, 41, 61, 71, 147, 205, 207, 221
 Incisor teeth, 21, 22
 Infraorbital foramen, 9
 Infundibulum, 201, 311
 Inguinal lymph nodes
 deep, 335
 superficial, 335, 337
 Innominate line, 3, 11, 13
 Interarytenoid notch, 213
 Intercavernous sinus, 269
 Intercondylar eminence, 140, 155, 159, 167
 lateral tubercle, 153, 157, 161, 165
 medial tubercle, 153, 157, 161, 165
 Intercondylar fossa, 155, 161, 163
 Intergluteal fat stripe, 143
 Interlobular artery, 297
 Interlobular vein, 299
 Internal auditory canal, 3, 7, 11, 27, 29, 31, 33
 Interosseous membrane
 forearm, 120, 122
 leg, 161, 165
 Interphalangeal joint
 finger
 distal, 125, 127, 139
 proximal, 125, 127, 139
 toe
 distal, 172, 185, 187, 189
 proximal, 172, 185, 187, 189
 Intertarsal (Chopart's) joint, 185, 187
 Intertrochanteric crest, 59, 143, 147, 149
 Intertubercular sheath, 257, 259
 Intervertebral disk, 325, 327, 329, 331, 333
 Intervertebral disk space, 43, 45, 51, 53, 55, 57
 Intervertebral facet joint, 45, 47, 51, 53
 Intervertebral foramen, 47, 51, 55, 57, 331
 Intradural space, 325
 Intramedullary region, 325
 Intravenous contrast studies, 249–51
 cholecystocholangiogram, 251
 urogram, 249
 Ischium, 61, 65, 67, 69, 79, 140, 145, 147, 149
 posterior column, 143, 145
 spine, 59, 63, 65, 67, 73, 75, 79, 143, 145, 147, 149
 tuberosity, 59, 63, 65, 69, 140, 143, 145, 147, 151

J

Jaw
 lower, *see* Mandible
 pantomogram, 23
 upper, *see* Maxilla

Jejunal artery, 293
 Jejunal vein, 295
 Jejunum, 237, 239
 Joint
 acromioclavicular, 87, 89, 91, 93, 95, 97,
 99, 101, 103, 105, 107, 111
 atlantoaxial, 11, 43
 calcaneocuboid, 175, 185
 carpometacarpal, 129
 Chopart's (intertarsal), 172, 187
 costotransverse, 81, 89
 costovertebral, 81
 cuneonavicular, 175, 183
 facet, 45, 47, 51, 53
 inferior, 45
 superior, 45
 glenohumeral, 103
 humero-radial, 113, 115, 119, 120
 humero-ulnar, 113, 115, 119, 120
 interphalangeal
 finger
 distal, 125, 127, 139
 proximal, 125, 127, 139
 toe
 distal, 172, 185, 187, 189
 proximal, 172, 185, 187, 189
 intertarsal, 185, 187
 Lisfranc's (tarsometatarsal), 172, 187
 metacarpophalangeal, 125, 127, 139
 metatarsophalangeal, 172, 175, 185, 187,
 189
 patellofemoral, 155, 164
 radiocarpal, 120, 122, 129
 radioulnar, 129
 distal, 120, 125
 proximal, 113, 119, 120
 sacroiliac, 41, 53, 59, 67, 69, 71, 73, 143,
 145, 147, 149
 anterior aspect, 221
 middle portion, 221
 posterior inferior aspect, 221
 thirty-degree anterior oblique view, 71
 tomogram, 221
 sternoclavicular, 83, 91
 subtalar, 177, 183
 talocalcaneonavicular, 175, 183, 185, 187
 talonavicular, 171
 tarsometatarsal, 172, 175, 183, 185, 187,
 189
 temporomandibular, 7, 19, 21
 fossa, 31
 tibiofibular, 155, 263
 transverse tarsal, 172, 187
 uncovertebral, 43
 see also Ankle; Elbow; Hip; Knee;
 Shoulder; Wrist
 Jugular foramen, 7, 27

Jugular vein
 bulb of, 277
 external, 311
 internal, 271, 311
 Junction
 anorectal, 245
 of mesenteric vein, 291
 rectosigmoid, 245

K

Kidney
 calyces
 inferior, 249
 middle, 249
 superior, 249
 inferior pole, 249
 left, 207, 249
 renal pelvis, 249
 right, 207, 249
 superior pole, 249
 Knee, 167
 angiogram, 305
 anterior-posterior view, 157
 arthrogram, 261
 capsular recess
 inferior, 261
 superior, 261
 cartilage, 261
 Frik tunnel view, 161
 joint space, 140
 lateral view, 159
 meniscus, 261
 posterior fat, 159
 see also Leg; Patella
 Köhler's teardrop figure, 143

L

Lactiferous duct, 209, 211, 351
 Lacunar lymph nodes, 337, 339
 lateral, 335
 Lamboid suture, 3, 5, 7
 Lamina papyracea, 13
 Larynx, 227
 ventricle, 213, 215, 227
 vestibule, 213, 215
 Leg
 full-length anterior-posterior view, 141
 lower
 angiogram, 307
 anterior-posterior view, 165
 distal third, 140, 167
 lateral view, 167
 middle third, 140, 167
 proximal third, 140, 167
 venogram, 321

- see also* Ankle; Foot; Hip; Knee;
Thigh
- Ligament
Cooper's, 209, 211, 351
patellar, 159
- Line
arcuate, pelvis, 71
Hilgenreiner's, 61
ilioischial, 143
iliopectineal, 69
iliopubic, 63
innominate, 3, 11, 13
paravertebral, 49
Perkin's, 61
Shenton's, 61
terminal, 143
triradiate cartilage, 61
- Lingula, 341, 343
- Lisfranc's (tarsometatarsal) joint, 172, 187
- Liver, 207, 291
inferior margin, 205
- Lower extremity, *see* Ankle; Foot; Hip;
Knee; Leg; Thigh
- Lower jaw, *see* Mandible
- Lower leg, *see* Leg
- Lumbar artery, 301
- Lumbar lymph nodes, 335, 337
lumbar trunk
left, 335, 337
right, 335, 337
- Lumbar myelograms
anterior-posterior, 329
lateral, 331
oblique, 333
- Lumbar spine
anterior-posterior view, 53
lateral view, 55
oblique view, 57
- Lunate bone, 120, 122, 125, 127, 129, 131,
133, 135, 137
- Lung
apex, 193
left, 199, 200, 203
lower lobe, 198, 199
anterior-medial basal segment, 199,
341, 343
lateral basal segment, 199, 341, 343
medial segment, 199
posterior basal segment, 199, 341, 343
superior segment, 199, 341, 343
middle lobe, 198, 199
lateral segment, 199
lingular segment
inferior, 199
superior, 199
medial segment, 199
pericardial region, 198
perihilar region, 198
posterior border, 193
right, 199, 200, 203
right hilum, lateral tomogram, 219
segments, 198–9
supradiaphragmatic region, 198
upper lobe, 198, 199
anterior segment, 199, 341, 343
apical segment, 199
apical-posterior segment, 199, 341,
343
axillary subsegment, 199
inferior segment, lingula, 341, 343
posterior segment, 199
superior segment, lingula, 341, 343
see also Bronchus
- Lymph nodes
crossover, 335, 337, 339
iliac
common, 335, 337, 339
external, 337, 339
internal, 337, 339
inguinal
deep, 335
superficial, 335, 337
lacunar, 337, 339
lateral, 335
lumbar, 335, 337
para-aortic, 339
lateral aortic, 339
preaortic, 339
retroaortic, 339
promontory, 335, 337, 339
- Lymph tracts
iliac channels, 335, 337
lumbar trunk
left, 335, 337
right, 335, 337
- Lymphangiogram, bipedal, 334–9
anterior-posterior, channel phase, 335
anterior-posterior, nodal phase, 339
oblique, channel phase, 337

M

- Malleolus, 183
lateral, 140, 165, 169, 171, 172, 177, 179,
181, 263
medial, 140, 165, 169, 171, 172, 181, 263
- Malleus
lateral, 167
medial, 167
- Mammogram
craniocaudal, 209
mediolateral, 211
- Mandible, 3, 5, 9, 45, 47, 213, 215, 227,
347

- angle, 3, 17, 19, 21, 22
- Clementschi's view, 21
- condylar process, 3, 22
- condyle, 7, 9, 19, 21, 22, 27, 29, 31, 33, 35
- coronoid process, 5
- ramus, 17, 19, 21
- cortex, 19
- see also* Temporomandibular joint
- Mandibular canal, 3, 19, 21, 22
- Mandibular foramen, 19
- Manubrium, sternum, 83, 85, 91
- Marginal air cells, 31
- Marginal artery, 273
- Mastoid
 - air cells, 7, 27, 29
 - antrum, 29, 31
 - apex, 35
- Mastoid process, 3
- air cells, 31
- Maxilla, 3, 17, 21, 24
 - alveolar process, 9
 - alveolar recess, 9, 22
 - lateral wall, 17
- Maxillary sinus, 3, 5, 9, 11, 13, 15, 17, 21, 22, 25, 27, 29
 - medial wall, 39
 - posterior wall, 27
 - zygomatic recess, 25
- Mediastinum
 - inferior anterior, 198
 - middle, 198
 - posterior, 198
 - superior anterior, 198
- Medullary cone, 325, 327
- Meningeal artery, middle, 5
- Meniscus
 - knee, 261
 - wrist, 253
- Mental foramen, 19, 21, 22
- Mental protuberance, 3, 19, 21
- Mesenteric artery, superior, 289, 293
 - arteriography
 - arterial phase, 293
 - venous phase, 295
- Mesenteric vein
 - junction of, 291
 - superior, 295
- Metacarpal bones, 125, 127, 131, 135, 137, 139
 - base, 125, 127
 - fifth, 129
 - head, 125, 127
- Metacarpophalangeal joint, 125, 127, 139
- Metaphysis, 101
- Metatarsal bones, 172, 175, 181, 183, 185, 187
 - anterior-posterior view, 181
 - fifth, base, 171, 172, 175, 177, 181, 183, 185, 187
 - first, 189
 - head, 172
 - oblique view, 183
- Metatarsophalangeal joint, 173, 175, 185, 187, 189
- Mitral valve, 195, 197
- Molar teeth, 21, 22
- Muscle
 - abdominal, 207
 - gluteus minimus, fat stripe, 59, 143
 - iliopsoas, fat stripe, 59, 143
 - obturator internus, 59, 207
 - peroneus longus, groove for tendon, 179
 - psoas, 53, 207
 - margin, 205
 - puborectalis, 247
- Myelograms, 324–33
 - lumbar
 - anterior-posterior, 329
 - lateral, 331
 - oblique, 333
 - thoracic
 - anterior-posterior, 325
 - lateral, 327

N

- Nasal bone, 5, 9, 24
 - inferior, 3
- Nasal cartilage, 24
- Nasal cavity, 11, 21, 22, 29
- Nasal septum, 3, 9, 11, 13, 17, 27, 29, 39
- Nasal sinuses
 - occipitofrontal view, 11
 - Waters view, 9
- Nasal spine, anterior, 17, 24
- Nasal turbinate, 39
 - inferior, 13
- Nasomaxillary suture, 24
- Nasopharynx, 5
 - posterior, 215
- Navicular bone, 169, 171, 172, 175, 177, 181, 183, 185, 187
- Nerve, facial, 345, 347
- Nerve root sheath, 325, 329
 - L3, 333
- Nipple, 209, 211, 351
- Nose
 - lateral view, 24
 - vestibule, 24
- see also* Nasal bone; Nasal cavity; Nasal septum

O

Obturator artery, 301
 Obturator foramen, 59, 61, 65, 67, 69, 140, 143, 145, 147, 151
 Obturator internus muscle, 59, 207
 Occipital artery, medial, 273, 275
 calcarine branch, 275
 Occipital bone, 7, 43
 Occipital crest, 7
 internal, 33
 Occipital protuberance
 external, 7
 internal, 7, 33
 Occipital sinus, 271
 Occipital vein, 271
 Occiput, 3
 Odontoid process, 45, 47
 Olecranon, 109, 111, 113, 115, 117, 119, 120, 122
 fossa, 109, 111, 113, 115, 119, 120, 122
 Ophthalmic artery, 265, 275
 Optic canal, 15
 Oral cavity, 215
 Orbit, 9, 13, 27
 floor, 13, 17, 22
 lateral wall, 5, 11, 13, 15
 medial wall, 39
 posterior-anterior view, 13
 Rhese view, 15
 roof, 3, 11, 13, 15, 29, 37
 Orbital artery, frontal, 265, 267
 Orbital fissure, superior, 13, 15
 Orbital plate, 39
 Oropharynx, 227
 Os frontale, 4
 Os intermetatarsium, 173
 Os occipitale, 4
 Os parietale, 4
 Os peroneum, 173
 Os sphenoidale, 4
 Os supratentorium, 173
 Os temporale, 4
 Os tibiale externum, 173
 Os trigonum, 177
 Os vesalianum, 173
 Os zygomaticum, 4
 Osseous hemithorax, 81
 Osseous labyrinth, 35
 Osseous sinus, wall, 35

P

Pacchionian granulations, 3
 Palate
 hard, 5, 13, 22
 soft, 5, 22

Pancreatic duct, 353
 accessory, 353
 body region, 353
 head region, 353
 lateral
 primary, 353
 secondary, 353
 tertiary, 353
 tail region, 353
 Pancreaticoduodenal artery
 inferior, 289, 293
 superior, 289
 Pantomogram, facial bones, 23
 Papilla of Vater, 235, 353
 Para-aortic lymph nodes, 339
 lateral aortic, 339
 preaortic, 339
 retroaortic, 339
 Para-aortic stripe, 193
 Paracentral artery, 267
 Paraspinal stripe, 193
 Paratracheal stripe, right, 193
 Paravertebral line, 49
 Parietal artery
 anterior, 265, 267
 internal
 inferior, 267
 superior, 267
 posterior, 265, 267
 Parietal bone, 5
 Parietal vein, 269, 271
 Parieto-occipital artery, 273, 275
 Parotid duct, 345, 347
 Parotid gland, 345, 347
 accessory gland, 345
 deep lobe, 345, 347
 intralobular ductal system, 345, 347
 sialogram
 anterior-posterior, 347
 lateral, 345
 superficial lobe, 345, 347
 Pars interarticularis, 57
 Patella, 140, 153, 155, 157, 159, 161, 163
 articular surface, 155, 163
 infrapatellar fat pad, 159
 multipartite, 162
 ninety-degree view, 163
 shapes, Wiberg's classification, 162
 sixty-degree view, 163
 thirty-degree view, 163
 see also Knee
 Patellar ligament, 159
 Patellofemoral joint, 155, 163
 Pedicle, 43, 47, 49, 53, 57, 71, 221
 Pelvis
 anterior-posterior view, 59
 child, 61

- aortic angiogram, 301
- arcuate line, 71
- Guthmann's view, 65
- iliac wing view, 67
- inlet view, 63
- obturator view, 69
- renal, 249
- Perforating artery, 303
- Periantral air cells, 31, 35
- Pericallosal artery, 265, 267
- Pericardial region, 198
- Perihilar region, 198
- Perkin's line, 61
- Peroneal artery, 305, 307
- Peroneal trochlea, 179
- Peroneal vein, 321
- Peroneus longus muscle, groove for tendon, 179
- Petrosal sinus
 - inferior, 269, 271, 277, 279
 - superior, 271, 277, 279
- Petrosal vein, 277
- Petrous bone, 7, 31
 - apex, 31, 35
 - margin
 - anterior, 31
 - posterior, 35
 - Mayer view, 35
 - Schüller view, 31
 - Stenvers view, 33
- Petrous pyramid, apex, 33
- Petrous ridge, 3, 9, 11, 13, 29, 37
- Altschul view, 29
- Phalanx
 - finger
 - distal, 125, 139
 - tuft, 139
 - middle, 125, 139
 - proximal, 125, 127, 129, 131, 139
 - base, 125, 127, 139
 - head, 125, 127, 139
 - toe
 - distal, 172, 175, 185, 187, 189
 - tuft, 172, 189
 - middle, 172, 175, 185, 187, 189
 - proximal, 175, 185, 187, 189
 - head, 172
- Pharynx, 225
- Piriform recess, 213, 225, 227, 229
 - inferior posterior margin, 215
- Pisiform bone, 120, 122, 125, 129, 131, 133, 135, 137
 - special view, 137
- Pituitary fossa, 5, 37, 39
- Plantar aponeurosis, 177
- Plantar artery, 309
- Plexus, pterygoid, 271
- Polar artery
 - frontal, 265, 267
 - temporal, 265
- Popliteal artery, 305
- Popliteal bursa, 261
- Popliteal fossa, 155
- Popliteal vein, 321
- Portal vein, 291, 295
 - left branch, 295
 - right branch, 295
- Prefrontal artery, 265, 267
- Premolar teeth, 21, 22
- Preperitoneal fat, 207
- Promontory, 55, 59, 65, 75, 221
- Promontory lymph node, 335, 337, 339
- Psoas muscle, 53, 207
 - margin, 205, 249
- Pterygoid fossa, 27
- Pterygoid plexus, 271
- Pterygoid process, 22
- Pterygopalatine fossa, 22, 27
- Pubic bone, 61, 67, 69, 140, 145, 147, 149, 151
 - anterior column, 143, 145, 147
- Pubic symphysis, 59, 63, 65, 77
- Pubis
 - inferior ramus, 59, 63, 65, 69, 145
 - superior ramus, 59, 63, 65, 73, 77, 143, 145
- Puborectalis muscle, 247
- Pulmonary artery
 - apical branch, 285
 - arteriography
 - arterial phase, 285
 - venous phase, 287
 - left, 195, 201, 203, 285, 311
 - upper lobe, 201
 - lingular branch, 285
 - lobar branch
 - inferior, 195, 201, 217, 219, 285
 - middle, 219, 285
 - superior, 219
 - main, 195, 196, 201
 - right, 195, 203, 217, 219, 285, 311
 - trunk, 285, 311
- Pulmonary hilum, anterior-posterior tomogram, 217
- Pulmonary valve, 195, 196
- Pulmonary vein, 196, 197, 217
 - apical branch, 287
 - apicoposterior branch, 287
 - inferior, 287
 - left, 201
 - right, 201
 - left, 203
 - upper lobe, 201
 - right, 203

superior, 287
 Pulp cavity, 19, 22
 Pylorus, 233, 235
 antrum, 233, 235, 237

R

Radial vein, 319
 Radiocarpal joint, 120, 122, 129
 Radiographs
 abdomen
 standing, 205
 supine, 207
 chest
 lateral, 196–7
 left, anterior oblique view, 203
 posterior-anterior, 193
 heart and major vessels, 195
 right, anterior oblique view, 201
 lung segments, 198–9
 Radioulnar joint, 129
 distal, 120, 125
 proximal, 113, 119, 120
 Radius, 109, 111, 113, 115, 117, 119, 120,
 122, 129, 135, 137, 255, 319
 distal, 125, 127
 head, 109, 111, 113, 115, 117, 119, 120,
 122
 neck, 113, 119, 120, 122
 oblique view, 119
 styloid, 120, 125, 127, 129, 131, 135
 tuberosity, 115, 119, 120
 Rectosigmoid junction, 245
 Rectum, 243, 245
 ampulla, 245, 247
 gas, 79
 transverse fold, 245
 Renal arteriogram
 arterial phase, 297
 venous phase, 299
 Renal artery
 left, 297
 right, 297
 Renal pelvis, 249
 Renal vein, 315
 left, 299, 313
 right, 299, 313
 superior branch, 299
 Retrocardiac space, 197
 Retrofacial air cells, 31
 Retropharyngeal space, 215
 Retrorectal space, 245
 Retrosinus air cells, 35
 Retrosternal space, 85, 196
 Rib, 47, 57, 97
 first, 43, 49
 tubercle, 49

head, 49, 51, 81
 neck, 49, 81
 twelfth, 249
 Rib cage, 41
 Rima glottidis, 213
 Root canal, 19, 22

S

Sacciform recess, 253
 Sacral artery
 lateral, 301
 median, 301
 Sacral canal, 75, 79
 Sacral crest
 lateral, 73, 77, 79
 median, 73, 75, 77, 79
 Sacral foramen, 53, 71, 73, 77, 221
 Sacral hiatus, 73, 77
 Sacroiliac joint, 41, 53, 59, 67, 69, 71, 73,
 143, 145, 147, 149
 anterior aspect, 221
 middle portion, 221
 posterior inferior aspect, 221
 thirty-degree anterior oblique view, 71
 tomogram, 221
 Sacrum, 41, 53, 55, 59, 63, 65, 67, 71, 75,
 79, 143, 205, 207, 245, 331
 ala, 63, 73, 221
 anterior aspect, 221
 anterior-posterior view, 73
 cornu, 73, 75, 77, 79
 lateral view, 75
 Sagittal sinus
 inferior, 271
 superior, 269, 271
 Sagittal suture, 3
 Salivary gland, *see* Parotid gland
 Saphenous vein
 great, 321
 small, 321
 Scaphoid, 120, 122, 125, 127, 129, 131,
 133, 135, 137
 Scapula, 51, 99, 103, 107, 196
 angle
 inferior, 81, 95, 97
 superior, 87, 89, 95, 97, 99, 101, 103
 anterior-posterior view, 95
 articular surface, 95
 lateral view, 97
 margin
 lateral, 87, 95, 97, 99
 medial, 87, 95, 99
 process
 glenoid, 87
 lateral (neck), 95, 103, 109
 spine, 87, 89, 95, 97, 99, 101

- Sciatic notch
 - greater, 65, 73, 75, 79
 - lesser, 75
- Segmental artery, 285, 287
 - anterior branch, 297
 - inferior, 297
 - middle, 297
 - posterior branch, 297
 - superior, 297
- Sella turcica
 - anterior-posterior view, 39
 - floor, 39
 - lateral view, 37
- Semicircular canal, 7, 27
 - anterior, 29, 33
 - lateral, 29, 33
- Septum pellucidum, vein of, 271
- Sesamoid
 - foot, 172, 173, 175, 185, 187, 189
 - hand, 125, 127
- Sheath
 - biceps head, tendon, 257, 259
 - intertubercular, 257, 259
 - nerve root, 325, 329
 - L3, 333
- Shenton's line, 61
- Shoulder
 - anterior-posterior abduction view, 101
 - anterior-posterior arthrogram, 257
 - anterior-posterior view, 99
 - axial view, 103
 - oblique arthrogram, 259
 - soft tissues, 196
 - stress view, 87
 - tangential view, 105
 - trans thoracic view, 107
 - see also* Arm
- Sialograms, 344–7
 - anterior-posterior parotid, 347
 - lateral parotid, 345
- Sigmoid colon, 243
- Sigmoid sinus, 35, 269, 271, 277, 279
 - sulcus, 31
- Sinus
 - cavernous, 279
 - anterior drainage, 271
 - posterior drainage, 271
 - confluence of, 271, 277, 279
 - ethmoid, 3, 5, 9, 11, 13, 15, 39
 - frontal, 3, 5, 9, 11, 13, 15, 29, 39
 - intercavernous, 269
 - lactiferous, 351
 - maxillary, 3, 5, 9, 11, 13, 15, 17, 21, 22, 25, 27, 29
 - medial wall, 39
 - posterior wall, 27
 - zygomatic recess, 25
- nasal
 - occipitofrontal view, 11
 - Waters view, 9
- occipital, 271
- osseous, wall, 35
- petrosal
 - inferior, 269, 271, 277, 279
 - superior, 271, 277, 279
- sagittal
 - inferior, 271
 - superior, 269, 271
- sigmoid, 35, 269, 271, 277, 279
 - sulcus, 31
- sphenoid, 5, 15, 27, 37
- sphenoparietal, 269
- straight, 271, 277, 279
- tarsal, 171, 177, 183
- transverse, 269, 271, 277, 279
 - sulcus, 7
- Skeleton, 2–189
- Skin, breast, 209, 211, 351
- Skull, 2–39
 - base, 17, 27, 45, 215
 - jaw and facial bones, pantogram, 23
 - lateral view, 5
 - mandible
 - Clementschi's view, 21
 - ramus, 19
 - maxilla, 17
 - nasal sinuses
 - occipitofrontal view, 11
 - Waters view, 9
 - nose, lateral view, 24
 - orbit
 - posterior-anterior view, 13
 - Rhese view, 15
 - petrous bone
 - Mayer view, 35
 - Schüller view, 31
 - Stenvers view, 33
 - petrous ridge, Altschul view, 29
 - posterior, Towne view, 7
 - posterior-anterior view, 3
 - sella turcica
 - anterior-posterior view, 39
 - lateral view, 37
 - zygomatic arch, 25
- Small bowel, 237, 239
 - gas, 205
 - ileoceleal region, spot film, 241
 - see also* Duodenum; Ileum; Jejunum
- Space
 - ankle joint, 263
 - extradural, 325
 - hip joint, 65, 140
 - intervertebral disk, 43, 45, 51, 53, 55, 57
 - intradural, 325

- knee joint, 140
- retrocardiac, 197
- retropharyngeal, 215
- retrorectal, 245
- retrosternal, 85, 196
- subarachnoid
 - anterior, 327
 - lateral, 325
 - posterior, 327
 - spinal nerve root, 329
- subglottic, 213, 215
- subphrenic, 205
- Special studies, 324–53
 - bipedal lymphangiogram
 - anterior-posterior
 - channel phase, 335
 - nodal phase, 339
 - oblique, channel phase, 337
 - bronchogram, left
 - anterior-posterior, 341
 - lateral, 343
 - endoscopic retrograde cholangio-pancreatography (ERCP), 353
 - galactogram, 351
 - hysterosalpingogram, 349
 - myelogram
 - lumbar
 - anterior-posterior, 329
 - lateral, 331
 - oblique, 333
 - thoracic
 - anterior-posterior, 325
 - lateral, 327
 - parotid sialogram
 - anterior-posterior, 347
 - lateral, 345
- Sphenoid, 3, 11, 13, 15, 37, 39
 - greater wing, 5, 9, 13, 37
 - lesser wing, 13, 15
- Sphenoid sinus, 5, 15, 27, 37
- Sphenoparietal sinus, 269
- Sphenopetrosal fissure, 33
- Sphenosquamous suture, 33
- Spinal cord, 325, 327
- Spinal nerve root, subarachnoid space, 329
- Spine, 40–79
 - anterior-posterior full-length view, 41
 - cervical, 27, 87, 227
 - anterior-posterior view, 43
 - lateral view, 45
 - oblique view, 47
 - lumbar
 - anterior-posterior view, 53
 - lateral view, 55
 - oblique view, 57
 - thoracic
 - anterior-posterior view, 49
 - lateral view, 51
 - see also* Coccyx; Pelvis; Sacroiliac joint; Sacrum; Vertebrae
- Spinous process, 43, 45, 47, 49, 51, 53, 55, 57, 73, 221
- Spleen, 207, 291
 - lower margin, 205
- Splenic artery, 289, 297
- Splenic flexure, 243
 - gas, 205
- Splenic vein, 291, 295
- Spot images
 - mammogram
 - craniocaudal, 209
 - mediolateral, 211
 - trachea
 - anterior-posterior view, 213
 - lateral view, 215
- Squamous air cells, 31
- Stenson's duct, 345, 347
- Sternal notch, 83
- Sternoclavicular joint, 83, 91
- Sternum, 83, 85, 196, 203
 - angle, 83, 85, 196
 - anterior-posterior view, 83
 - lateral view, 85
 - manubrium, 83, 85, 91
- Stomach, 231, 233, 235, 237
 - angular notch, 233
 - antrum, 233
 - cardia, 231, 233
 - fundus, 233
 - gastric bubble, 193, 197, 201, 203, 205
 - gastric folds, 233
 - greater curvature, 233
 - lesser curvature, 233
- Straight sinus, 271, 277, 279
- Stripe
 - azygoesophageal, 193
 - para-aortic, 193
 - paraspinal, 193
 - paratracheal, 193
- Styloid process, 22, 31
 - radius, 120, 125, 127, 129, 131, 135
 - ulna, 120, 122, 125, 127, 129, 131, 135, 255
- Subarachnoid space
 - anterior, 327
 - lateral, 325
 - posterior, 327
 - spinal nerve root, 329
- Subarcuate fossa, 33
- Subclavian artery, 195, 281, 283
 - arch, 195
- Subclavian vein, 311, 317
- Subcutaneous fat
 - abdomen, 207

breast, 209, 211, 351
 Subglottic space, 213, 215
 Subphrenic space, 205
 Subscapular bursa, 257, 259
 Subtalar joint, 177, 183
 Sulcal artery, precentral, 265
 Sulcus
 sigmoid sinus, 31
 transverse sinus, 7
 Supracalcaneal recess, 263
 Supraduodenal artery, superior, 289
 Suprascapular artery, 281
 Suprascapular notch, 101
 Sustentaculum tali, 177, 179
 Suture
 coronal, 5
 frontonasal, 24
 frontozygomatic, 3
 lambdoid, 3, 5, 7
 nasomaxillary, 24
 sagittal, 3
 sphenosquamous, 33
 temporozygomatic, 25
 Symphysis pubis, 59, 63, 65, 77

T

Talocalcaneonavicular joint, 175, 183, 185, 187
 Talonavicular joint, 171
 Talus, 165, 167, 171, 175, 177, 179, 183, 187, 263
 head, 171, 172, 181
 lateral process, 171, 177
 neck, 171
 posterior process, 171, 175, 177
 trochlea, 140, 169, 171
 Tarsal joint, transverse, 172, 187
 Tarsometatarsal joint, 172, 175, 183, 185, 187, 189
 Temporal artery, posterior, 265, 267
 Temporal bone, 5, 21
 petrous portion, 5, 15
 zygomatic process, 25, 31
 see also Temporomandibular joint
 Temporal fossa, 25
 Temporo-occipital artery, 273, 275
 Temporomandibular joint, 7, 19, 21
 fossa, 31
 see also Mandible; Temporal bone
 Temporozygomatic suture, 25
 Tendon
 Achilles, 171, 177
 ankle, recess, 263
 biceps muscle
 insertion, 259
 sheath, 257, 259
 peroneus longus muscle, groove for, 179
 Terminal line, 143
 Thalamoperforate artery, 273
 Thalamostriate vein, superior, 269, 271
 Thalamus, 275
 Thigh
 angiogram, 303
 anterior-posterior view, 153
 lateral view, 155
 Thoracic artery, internal, 281
 Thoracic myelograms
 anterior-posterior, 325
 lateral, 327
 Thoracic spine
 anterior-posterior view, 49
 lateral view, 51
 Thorax, *see* Chest
 Thyrocervical trunk, 281, 283
 Thyroid artery
 inferior, 281
 superior, 281
 Thyroid cartilage, 213, 215
 Thyroid vein, inferior, 269, 271
 Tibia, 140, 155, 157, 159, 161, 165, 167, 169, 171, 175, 263
 apophysis, proximal, 167
 condyle
 lateral, 140, 153, 155, 157, 165, 167
 medial, 140, 153, 157, 165, 167
 cortex, 165
 medullary canal, 165
 plateau, 159
 lateral, 161
 medial, 161
 tuberosity, 159, 161, 165
 Tibial artery
 anterior, 305, 307, 309
 muscular branch, 307
 posterior, 305, 307, 309
 Tibial vein
 anterior, 321
 posterior, 321
 Tibiofibular joint, 155, 263
 Toe
 anterior-posterior view, 189
 interphalangeal joint, 189
 distal, 172, 185, 187, 189
 proximal, 172, 185, 187, 189
 lateral view, 189
 phalanx, 172
 distal, 172, 175, 185, 187, 189
 middle, 172, 175, 185, 187, 189
 proximal, 172, 175, 185, 187, 189
 Tomograms, 216–21
 facial bones, pantomogram, 23
 lung, right hilum, 219
 pulmonary hilum, 217

sacroiliac joint, 221
 Tongue, 9, 227
 shadow, 22
 Tooth
 apical foramen, 19, 22
 canine, 21, 22
 dentin, 22
 enamel, 22
 incisor, 21, 22
 molar, 21, 22
 premolar, 21, 22
 root, 22
 root canal, 19, 22
 Trachea, 21, 43, 45, 49, 193, 196, 201, 203, 217, 219, 227
 anterior-posterior spot view, 213
 bifurcation, 217
 carina, 193, 203
 distal, 213, 215
 lateral spot view, 215
 proximal, 213, 215
 Transverse colon, 243
 gas, 205
 Transverse process, 43, 45, 47, 49, 51, 53, 55, 57, 73, 77, 81, 221
 L5, 71
 T1, 43
 Transverse sinus, 269, 271, 277, 279
 sulcus, 7
 Transverse tarsal joint, 172, 187
 Trapezium, 125, 127, 129, 131, 133, 135, 137
 Trapezoid, 125, 127, 129, 131, 133, 135, 137
 Tricuspid valve, 195, 197
 Triquetrum, 120, 122, 125, 127, 129, 131, 133, 135, 137
 Triradiate cartilage line, 61
 Trochanter
 greater, 59, 67, 140, 143, 145, 147, 149, 151
 lesser, 59, 69, 143, 145, 147, 149, 151
 Trochlea, 109, 111, 113, 117, 119, 120, 122
 lateral margin, 113
 medial margin, 113
 peroneal, 179
 talus, 140, 169, 171
 Tuberculum sellae, 37
 Tympanic cavity, 29, 33, 35
 roof, 33

U

Ulna, 109, 111, 113, 115, 117, 119, 120, 122, 129, 135, 255, 319
 distal, 125, 127
 recess, 253, 255

 styloid, 120, 122, 125, 127, 129, 131, 135, 137, 255
 Ulnar vein, 319
 Uncinate process, 43
 Uncovertebral joint, 43
 Upper extremity, *see* Arm; Elbow; Forearm; Hand; Shoulder; Wrist
 Upper jaw, *see* Maxilla
 Ureter, 249
 distal, 249
 Urinary bladder, 59, 205, 207, 249
 Urogram, 249
 Uterine cavity, 349
 Uterine ostium, 349
 Uterus, fundus, 349
 Uvula, 227, 229

V

Vagina, 349
 Vallecule, 225, 227
 floor, 213, 215
 Valve
 aortic, 195, 196
 ileocecal, 241, 243
 mitral, 195, 197
 pulmonary, 195, 196
 tricuspid, 195, 197
 Vater
 ampulla of, 233, 235, 237
 papilla of, 235, 353
 Vein
 anastomotic
 inferior, 271
 superior, 269, 271
 antebrachial
 median, 319
 arcuate, 299
 of arm, deep, 317
 axillary, 317
 azygos, 195, 217, 311
 basal
 common, 287
 inferior, 287
 of Rosenthal, 269, 271, 279
 basilic, 319
 brachial, 317, 319
 brachiocephalic
 left, 311
 right, 311
 contour, 195
 breast, 209, 211
 cephalic, 311, 317, 319
 cerebellar
 hemispheric, 277
 inferior, 277, 279
 precentral, 279

- superior, 279
- cerebral
 - great, 269, 271, 279
 - internal, 269, 271, 279
 - superior, 277
- colic, right, 295
- cubital, median, 319
- femoral, 321
 - deep, 321
 - superficial, 321
- of fossa of Sylvius, 269, 271
- frontal, 269
 - ascending, 271
- of Galen, 269, 271, 279
- ileal, 295
- ileocolic, 295
- iliac
 - common, 313, 315, 321
 - external, 313, 315, 321
 - internal, 313, 315
- interlobular, 299
- jejunal, 295
- jugular
 - bulb of, 277
 - external, 311
 - internal, 271, 311
- of Labbé, 271
- mesenteric
 - junction of, 291
 - superior, 295
- occipital, 271
- parietal, 269, 271
- peroneal, 321
- petrosal, 277
- popliteal, 321
- portal, 291, 295
 - left branch, 295
 - right branch, 295
- pulmonary, 196, 197, 217
 - apical branch, 287
 - apicoposterior branch, 287
 - inferior, 287
 - left, 201
 - right, 201
 - left, 203
 - upper lobe, 201
 - right, 203
 - superior, 287
- radial, 319
- renal, 315
 - left, 299, 313
 - right, 299, 313
 - superior branch, 299
- saphenous
 - great, 321
 - small, 321
- of septum pellucidum, 271
- splenic, 291, 295
- subclavian, 311, 317
- thalamostriate, superior, 269, 271
- thyroid, inferior, 311
- tibial
 - anterior, 321
 - posterior, 321
- of Trolard, 269, 271
- ulnar, 319
- of vermis
 - branch, 273
 - inferior, 277
- see also* Vena cava
- Vena cava
 - inferior, 195, 197, 201, 203, 285, 313, 315, 321
 - anterior-posterior venogram, 313
 - lateral venogram, 315
 - superior, 195, 217, 285, 311, 317
 - anterior-posterior venogram, 311
- Venography
 - axilla, 317
 - forearm, 319
 - leg, 321
- vena cava
 - inferior
 - anterior-posterior, 313
 - lateral, 315
 - superior, 311
- Venous angle, 311
- Venous confluence, 195, 217, 291, 295
- Ventricle
 - left, 195, 197, 201, 203
 - right, 195, 197, 203, 285, 311
- Vertebrae, 49, 51, 53, 57
 - articular facet
 - inferior, 45
 - superior, 45
 - articular pillar, 45
 - articular process
 - inferior, 47, 49, 51, 53, 55, 57, 73, 221
 - superior, 47, 49, 51, 53, 55, 57, 73
 - C1, lateral mass, 43
 - C2, 47
 - C7, 41, 215
 - end plate
 - inferior, 45, 49, 51, 53, 55
 - superior, 45, 49, 51, 53, 55
 - L1, 41
 - L3
 - nerve root sheath, 333
 - pedicle, 41
 - L5, 71, 73, 75, 221
 - inferior articular process, 73
 - pedicle, 71
 - transverse process, 71

L6, spinous process, 41
 lamina, 45, 57, 221
 margin
 anterior
 inferior, 45, 51
 superior, 45, 51
 posterior
 inferior, 51
 superior, 51
 pars interarticularis, 57
 pedicle, 43, 47, 49, 53, 57, 71, 221
 spinous process, 43, 45, 47, 49, 51,
 53, 55, 57, 73, 221
 T1, transverse process, 43
 T2, 41
 T4, 198
 T5, 198
 T12, 41
 transverse process, 43, 45, 49, 51,
 53, 55, 57, 73, 77, 81, 221
 Vertebral arch, 43
 Vertebral artery, 273, 275, 281, 283
 arteriography
 anterior-posterior
 arterial phase, 273
 venous phase, 277
 lateral
 arterial phase, 275
 venous phase, 279
 Vestibular fold, 213
 Vestibule, 29, 33
 larynx, 213, 215
 nose, 24

Vocal cord
 false, 213
 true, 213
 Vocal fold, 213

W

Wiberg's center-to-corner angle, 61
 Wrist
 anterior-posterior view, 129
 arthrogram
 lateral, 255
 posterior-anterior, 253
 extensor recess, 253, 255
 flexor recess, 253, 255
 lateral view, 131
 meniscus, 253
 sacciform recess, 253
 triangular fibrocartilage, 253
 ulnar recess, 253, 255
 see also Forearm; Hand

X

Xiphoid process, 83, 85

Z

Zygomatic arch, 3, 13, 15, 22, 25, 29
 Zygomatic bone, 5, 9, 11, 27, 35
 frontal process, 13
 Zygomatic process, 5
 temporal bone, 25, 31
 Zygomatic recess, 25